

# Employment and Earnings

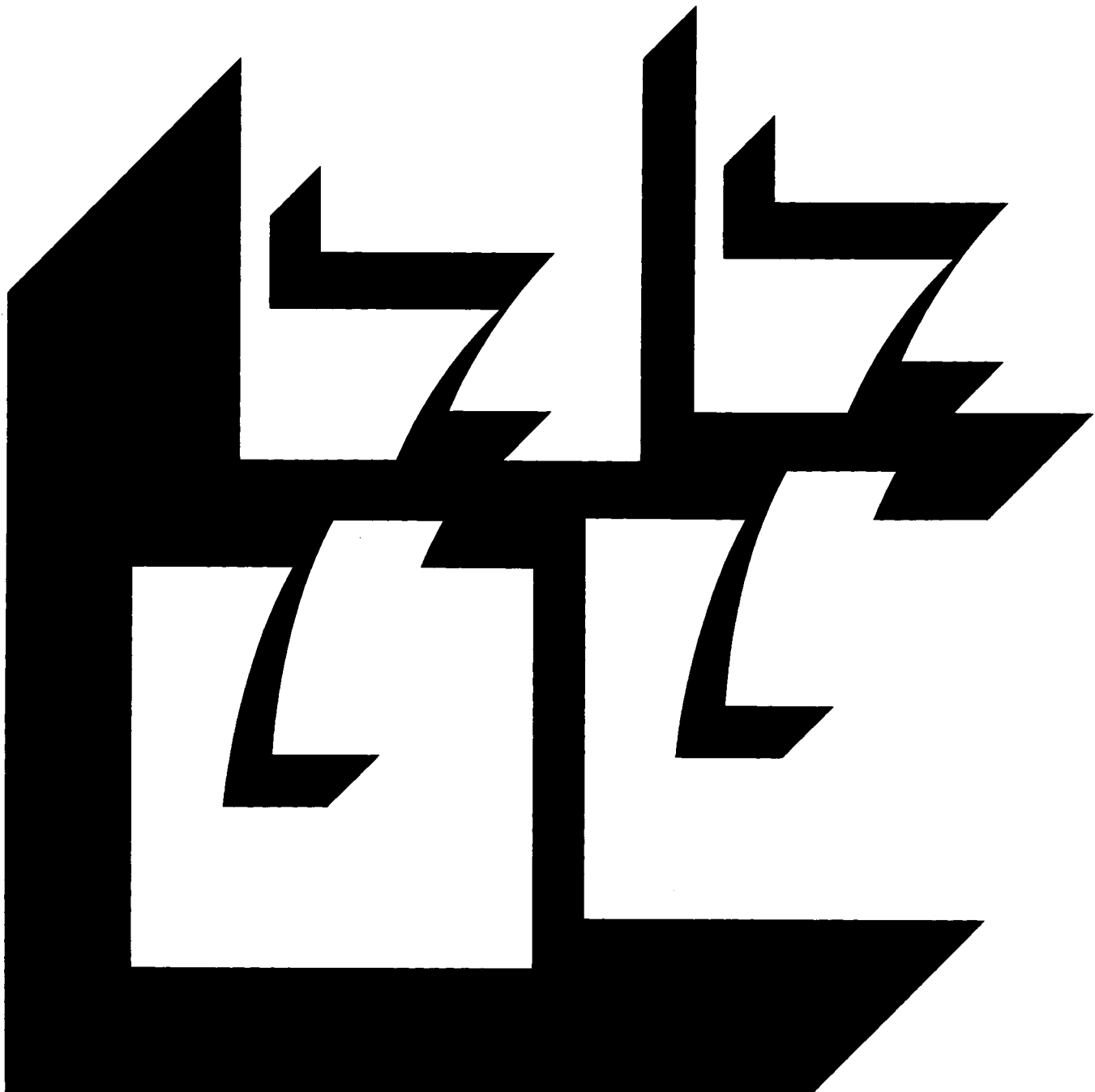
## August 1977

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## U.S. DEPARTMENT OF LABOR

Ray Marshall, Secretary

### BUREAU OF LABOR STATISTICS

Julius Shiskin, Commissioner

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# Employment and Earnings

Vol. 24 No. 8 August 1977

Editors: Chester L. Green, Gloria P. Green, Marcy Freedman

## Editors' Note

Publication of State and area annual averages (usually published in the May issue) has been delayed due to processing problems.

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<b>CALENDAR OF FEATURES</b>											
In addition to the monthly data appearing regularly in Employment and Earnings, special features appear in most of the issues, as shown below:											
	Jan.	Feb.	Mar.	Apr.	May	July	Aug.	Oct.	Nov.	Dec.	
<b>Household data</b>											
Annual averages	x										
Revised seasonally adjusted series		x									
Quarterly averages:											
Seasonally adjusted data											
Persons not in labor force											
Persons of Spanish origin											
Vietnam-Era veterans and nonveterans	x			x		x		x			
Poverty-nonpoverty area data											
<b>Establishment data</b>											
National annual averages:											
Industry divisions (preliminary)	x										
Industry detail (final)			x								
Women employment (National)		x			x		x		x		
National data adjusted to new benchmarks		(1)						(1)			
Revised seasonally adjusted series		(2)								(2)	
State and area annual averages					x						
Area definitions					x						

<sup>1</sup> The issue that introduces new benchmarks varies. The October 1975 issue marks the introduction of March 1974 benchmarks. Interim revisions of selected series appear in the February 1977 issue.

<sup>2</sup> Revised data introduced December 1976 and February 1977.

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<sup>1</sup> Monthly data in February, May, August, and November issues; annual averages in March issue.

# Employment and Unemployment Developments, July 1977

Total employment was about unchanged in July and unemployment dropped back to May levels. The Nation's unemployment rate was 6.9 percent, compared with 7.1 percent in June.

Total employment—as measured by the monthly survey of households—was 90.6 million in July, little changed from June after advancing for 8 consecutive months. Employment has grown by 2.8 million over the past 12 months—a 2.9 million increase in nonagricultural industries and a 140,000 decline in agriculture.

Nonagricultural payroll employment—as measured by the monthly survey of establishments—did show further growth in July, rising by 255,000 to 82.4 million. Over the past year, nonfarm payroll jobs have increased by 2.9 million, and thus, at least for this period, the two employment series have exhibited equivalent growth. Prior to July, the household employment series had been showing the larger gains.

## Unemployment

The number of unemployed persons declined by 220,000 in July to 6.7 million, seasonally adjusted. The overall unemployment rate edged down from June, returning to the May rate of 6.9 percent. The jobless rate has been close to the 7-percent mark since April, after declining from late 1976.

All of the over-the-month decrease took place among teenagers and adult women. At 17.4 percent, the jobless rate for teenagers was at its lowest point since October 1974; this decline was confined to white youth, as the rate for black teenagers (40.7 percent) remained extremely high. The rate for adult women was 6.9 percent, compared with 7.2 percent in June and 6.6 percent in May. The jobless rate for adult men was about unchanged at 5.1 percent.

The average (mean) duration of joblessness declined from 14.4 weeks in June to 14.1 weeks in July. There has been a general downward trend in average duration of unemployment since early 1976.

## Total employment and the labor force

Total employment was little changed in July at 90.6 million, seasonally adjusted, after rising for 8 consecutive months. Reflecting the 2.8 million growth in employment over the past year, the employment-population ratio—the proportion of the total noninstitutional population that is employed—has increased substantially. Although marginally below the June level, the July ratio of 57.1

percent remained close to the alltime high of 57.4 percent last recorded in March 1974.

The civilian labor force declined by 340,000 from June to July, seasonally adjusted. Nearly all of this reduction occurred among teenagers, who had registered an unusually large increase in the previous month. It is likely that the reduction in the labor force in July was due to the lateness of the reference week for June (the 12th through the 18th). Thus, some youth who otherwise would have been recorded as July entrants were counted in June. The total civilian labor force has shown strong gains throughout most of 1977 and over the past 12 months has grown by 2.1 million.

The civilian labor force participation rate returned to the May level of 62.2 percent but was still above the rate that prevailed a year ago.

## Industry payroll employment

Total nonagricultural payroll employment registered its ninth consecutive monthly advance in July, rising 255,000 to 82.4 million, seasonally adjusted. This increase approximated the average monthly gain since last July, as the number of payroll jobs has grown 2.9 million during this 12-month period. Over-the-month employment gains took place in 72 percent of the industries comprising the BLS diffusion index of nonagricultural payroll employment.

Nearly three-fourths of the total payroll job increase occurred in the service-producing sector, in which all industries experienced gains. Pacing this advance were trade and services, each of which added about 60,000 jobs.

Manufacturing employment rose by 70,000 in July to 19.7 million. This increase was about evenly divided between the durable and nondurable goods sectors, with machinery and textiles posting the largest advances. Since October, growth in manufacturing has been strong, totaling 750,000.

Elsewhere in the goods-producing industries, employment in contract construction rose 35,000 in July, about half of which resulted from strike settlements. After remaining at about 3.6 million throughout 1976, construction jobs have increased by 310,000 thus far in 1977. An over-the-month decline of 35,000 in mining employment was due to strike activity.

## Hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls edged

down a tenth of an hour for the second consecutive month, to 36.1 hours in July, seasonally adjusted. Average hours had been above this level since November, except in January when the workweek was affected by unusual weather conditions. The manufacturing workweek decreased 0.2 hour to 40.3. Manufacturing overtime edged down 0.1 hour, after holding at 3.4 hours for 3 months.

Despite the decline in the average workweek, the index of aggregate weekly hours of production or nonsupervisory workers on nonagricultural payrolls moved up slightly, reflecting increases in the service-producing sector. The index advanced 0.1 percent over the month to 115.8 (1967=100), 3.6 percent above last year's level. The manufacturing index declined 0.3 percent to its May level of 98.5, still 4.6 percent higher than last July.

#### **Hourly and weekly earnings**

Seasonally-adjusted average hourly and weekly earnings of production or nonsupervisory workers on private non-

agricultural payrolls rose slightly in July. Both hourly and weekly earnings were 7.6 percent above their levels 12 months earlier.

On an unadjusted basis, average hourly earnings were \$5.23 in July, up 2 cents from June and 37 cents from a year earlier. Average weekly earnings were \$190.90, an increase of \$1.26 over the month and \$13.02 from the July 1976 level.

#### **The hourly earnings index**

The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 198.5 (1967=100) in July, 0.5 percent higher than in June. The index was 6.9 percent above July a year ago. During the 12-month period ended in June, the Hourly Earnings Index in dollars of constant purchasing power rose 0.2 percent.

# Changes in the Spendable Earnings Series for 1977: The Effect of the Tax Reduction and Simplification Act of 1977

\*by Michael Buso and  
Eric Dmytrow

The Tax Reduction and Simplification Act of 1977, which was signed into law on May 23, 1977, provides substantial reductions in the tax burden on individuals for 1977. This article discusses the effect of these changes on spendable earnings series published by the Bureau of Labor Statistics and presents the new formulas to be used in calculating spendable earnings.<sup>1</sup>

The spendable earnings series are based on average earnings for all full-time and part-time production or nonsupervisory jobs in the private nonfarm sector of the U.S. economy. The Bureau calculates two sets of spendable earnings series based on the assumptions that the worker earned the gross average weekly earnings and was taxed at the rates applicable to (1) a worker with no dependents or (2) a married worker with three dependents who files a joint return.<sup>2</sup> The income tax liability is based on the standard deduction allowable under the income tax law. The Social Security tax rate levied against the employee (5.85 percent) is applied to gross average weekly earnings up to \$317.31 (\$16,500 per year), beyond which the maximum deduction of \$18.56 is applicable.

The provisions of the 1977 tax law have made it necessary to change the 1977 formulas. The formulas previously published in the March 1977 issue of *Employment and Earnings* will now be used for the months of January through May only; new formulas have been constructed for the period June through December. New 1977 annual average formulas have also been constructed.

The new act changes the standard deductions to zero bracket amounts of \$2,200 for a single worker and \$3,200 for a married worker filing a joint return. This provision combines the applicable low income allowance and proportional standard deduction (previously 16 percent of adjusted gross income up to a maximum of \$2,400 for a single worker and \$2,800 for a married worker filing jointly) into constant amounts.

Married workers at all income levels filing joint returns and single workers with earnings of less than \$13,750 per year or \$264.42 per week, have reduced tax liability under the new law. However, the tax liability for single workers with earnings above \$13,750 will be higher under the new law because the "new" zero bracket amount of \$2,200 is lower than the "old" maximum standard deduction of \$2,400.

The May 1977 Act continues the general tax credit (or taxable income credit) for all workers and the earned income credit through 1978. The general tax credit is the larger of \$35 for each personal exemption or 2 percent of up to \$9,000 taxable income, for a maximum of \$180.00. The earned income credit is still 10 percent of adjusted gross income for a low-income wage earner with at least one child. The credit reaches \$400 at the \$4,000 income level, and is decreased by 10 percent of adjusted gross income in excess of \$4,000 until it disappears at the \$8,000 income level.

As a result of the new zero bracket amounts, a married worker with three dependents whose yearly income does not exceed \$7,520 (\$144.62 per week) pays no Federal income tax for the tax year 1977.<sup>3</sup> A single worker with no dependents, who is not entitled to claim the earned income credit, pays no income tax until the worker's income exceeds \$3,200 (\$61.54 per week).<sup>4</sup> Social Security taxes are paid on all income up to \$16,500 per year or \$317.31 per week maximum.

The formulas for the period June through December were derived from the new 1977 annual average formulas and the previously published formulas.<sup>5</sup> These formulas represent the current tax liability for the period June-December 1977. This is lower than the actual annual tax liability because the income tax liability was higher in the first 5 months of the year. (Annual average formulas represent the tax liability for the full calendar year and are appropriate for tax liability comparisons between years.) The formulas for June-December 1977 indicate that a married worker with three dependents would have no income tax liability from June-December 1977 unless weekly income exceeded \$154.37 (equivalent to \$8,027.24 annually).<sup>6</sup> Similarly, a single worker would have no income tax liability on June-December earnings unless weekly income exceeded \$68.72 (\$3,573.44 annually).<sup>7</sup>

Table 1 indicates the reductions in tax liability resulting from the revisions in the tax law for various levels of earnings published monthly. It can be seen that the tax liability reductions are greatest for those workers whose earnings are nearest the average weekly earnings of production or nonsupervisory workers in the total private economy. This is due solely to the change from standard deductions to zero bracket amounts both for single workers and for married workers filing jointly.



\* Michael Buso and Eric Dmytrow are economists in the Division of Industry Employment Statistics, Office of Employment Structures and Trends, Bureau of Labor Statistics.

<sup>1</sup> The formulas reflect the current tax liability and do not necessarily reflect the amount actually withheld from paychecks for income tax and Social Security tax payments.

<sup>2</sup> For a technical description of the calculation, uses, and limitations of the spendable earnings series, see Carol M. Utter, "The Spendable Earnings Series: A Technical Note on its Calculation," *Employment and Earnings and Monthly Report on the Labor Force*, February 1969, pp. 6-10; Paul M. Schwab, "Two Measures of Purchasing Power Contrasted," *Monthly Labor Review*, April 1971, pp. 3-14; Jack Alterman, "Compensation per Man-Hour and Take-Home Pay," *Monthly Labor Review*, June 1971, pp. 25-34; and John F. Early, "Factors Affecting Trends in Real Spendable Earnings," *Monthly Labor Review*, May 1973, pp. 16-19.

<sup>3</sup> The formula for estimating the weekly earned income credit (Q) is:

$$Q = 1/52 [\$400 - 0.1 (52X - \$4,000)]$$

$$Q = \$15.38 - 0.1X$$

where

X = gross average weekly earnings

The formula for estimating the taxable income weekly credit (K) is:

$$K = (n \cdot \$35)/52$$

where

n = number of exemptions

Adding the two factors, Q and K, yields the following formula for income through the \$8,000 level:

$$X(0.9 - s - t) + t(X_0 + E) - C + \$15.38 + K$$

Under tax laws prior to 1975, the general formula was:

$$X(1 - s - t) + t(X_0 + E) - C$$

where

s = social security tax rate

t = maximum Federal income tax rate applicable to taxable income

X<sub>0</sub> = weekly earnings subject to Federal income tax at lower rates than t

E = total exemptions in dollars on a weekly basis

C = cumulation of tax paid on X<sub>0</sub>

The point at which income tax owed equals tax credits may be defined as follows:

$$T = 52(Q + K)$$

where T is the tax liability excluding social security, given by

$$T = t(Y - X_0 - E) + C$$

where Y = gross annual earnings

Then, substituting,

$$0.15 (Y - \$1,000 - \$6,200) + \$140 = (\$800 - 0.1Y) + \$140$$

Solving the equation yields

$$Y = \$7,520$$

<sup>4</sup> The point at which income tax owed equals tax credits may be defined as follows (note there is no Q in this case):

$$T = 52K$$

and  $T = t(Y - X_0 - E) + C$

Where T, t, Y, X<sub>0</sub>, E, C, and K are defined in the same way as in footnote 3.

Then

$$0.14 (Y - \$2,950) = \$35$$

Solving the equation yields

$$Y = \$3,200$$

<sup>5</sup> 1977 Annual Average form = a'X + b'

January 1977 - May 1977 form = aX + b

(June 1977 through December 1977 form) =

1/7[12(Annual Average form) -

5(January through May form)]

<sup>6</sup> 1/7[12(a'X + b') - 5(aX + b)] = .9415X

Substituting,

$$1/7[12(.7915X + \$20.77) - 5(.7815X + \$18.96)] = .9415X$$

$$.7986X + \$22.06 = .9415X$$

$$X = \$154.37$$

$$X \cdot 52 = \$8,027.24$$

<sup>7</sup> 1/7[12(a'X + b') - 5(aX + b)] = .9415X

$$1/7[12(.7915X + \$9.27) - 5(.7815X + \$8.50)] = .9415X$$

$$.7986X + \$9.82 = .9415X$$

$$X = \$68.72$$

$$X \cdot 52 = \$3,573.44$$

Table 1. Changes in tax liabilities in the spendable average weekly earnings series due to changes in the tax law for 1977

Industry	Gross average weekly earnings May 1977	Worker with no dependents, <sup>1</sup> change from							
		January-May 1977 formulas to June-December 1977 formulas		Old 1977 formulas to New 1977 annual formulas <sup>2</sup>		1976 formulas to New 1977 annual formulas <sup>3</sup>			
		Actual	Percent	Actual	Percent	Actual	Percent		
Trade .....	\$141.10	-\$3.14	-13.5	-\$1.83	-7.9	-\$1.83	-7.9		
Services .....	155.51	-3.14	-11.7	-1.83	-6.8	-1.83	-6.8		
Finance .....	167.63	-3.40	-11.3	-1.98	-6.6	-1.98	-6.6		
Total private .....	187.36	-3.63	-10.2	-2.12	-6.0	-2.12	-6.0		
Manufacturing .....	224.07	-2.58	-5.7	-1.51	-3.3	-1.51	-3.3		
Transportation and public utilities .....	273.20	.67	1.1	.39	.7	.39	.7		
Construction .....	296.63	1.90	2.9	1.11	1.7	1.26	1.9		
Mining .....	300.32	1.90	2.8	1.11	1.6	1.47	2.2		
				Married worker with 3 dependents, <sup>1</sup> change from					
				January-May 1977 formulas to June-December 1977 formulas		Old 1977 formulas to New 1977 annual formulas <sup>2</sup>		1976 formulas to New 1977 annual formulas <sup>3</sup>	
		Actual	Percent	Actual	Percent	Actual	Percent		
Trade .....		-\$2.35	-22.2	-\$2.35	-22.2	-\$2.35	-22.2	-\$2.35	-22.2
Services .....		-5.76	-38.3	-3.37	-22.4	-3.37	-22.4	-3.37	-22.4
Finance .....		-5.98	-33.6	-3.49	-19.6	-3.49	-19.6	-3.49	-19.6
Total private .....		-6.60	-29.3	-3.85	-17.1	-3.85	-17.1	-3.85	-17.1
Manufacturing .....		-6.89	-21.8	-4.02	-12.7	-4.02	-12.7	-4.02	-12.7
Transportation and public utilities .....		-6.10	-14.2	-3.57	-8.3	-3.57	-8.3	-3.57	-8.3
Construction .....		-5.32	-10.9	-3.10	-6.4	-2.96	-6.1	-2.96	-6.1
Mining .....		-5.10	-10.3	-2.97	-6.0	-2.61	-5.3	-2.61	-5.3

<sup>1</sup> Worker who earned the average weekly earnings.

<sup>2</sup> Old=1977 formulas computed prior to the Tax Reduction and Simplification Act of 1977.

New=1977 formulas computed after the Tax Reduction and Simplification Act of 1977.

<sup>3</sup> The only difference between the "old" 1977 formulas and the 1976 formulas is the increase in the maximum income on which social security taxes are paid, consequently the changes shown in the last two comparisons are the same for weekly earnings up to \$294.23.

### Spensible Average Weekly Earnings Formulas, 1939-77

Period	Worker with no dependents <sup>1</sup>		Married worker with 3 dependents <sup>1</sup>	
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
January 1939-December 1939	\$0 - \$22.73 22.74- 57.69	0.99X .95616X+ \$0.77	\$0 - \$57.69	0.99X
January 1940-December 1940	0 - 18.18 18.19- 57.69	.99X .95278X+ .68	0 - 57.69	.99X
January 1941-December 1941	0 - 15.34 15.35- 17.04 17.05- 56.25	.99X .9336X+ .87 .89976X+ 1.44	0 - 47.05 47.06- 52.28 52.29- 57.69	.99X .9336X+ \$2.65 .89976X+ 4.42
January 1942-December 1942	0 - 10.23 10.24- 11.36 11.37- 51.15 51.16- 57.69	.99X .8678X+ 1.25 .81704X+ 1.83 .78884X+ 3.27	0 - 38.87 38.88- 43.19 43.20- 57.69	.99X .8678X+ 4.75 .81704X+ 6.94
January 1943-December 1943	0 - 10.23 10.24- 11.36 11.37- 12.76 12.77- 51.15 51.16- 57.69	.99X .8678X+ 1.25 .81704X+ 1.83 .78179X+ 2.28 .75359X+ 3.72	0 - 12.76 12.77- 38.87 38.88- 43.19 43.20- 57.69	.99X .96368X+ .34 .84148X+ 5.09 .79072X+ 7.28
January 1944-December 1945	0 - 10.68 10.69- 53.41 53.42- 57.69 57.70- 96.15	.99X .783X+ 2.21 .765X+ 3.17 .775X+ 2.59	0 - 10.68 10.69- 42.74 42.75- 57.69 57.70- 85.47	.99X .963X+ .29 .783X+ 7.98 .793X+ 7.40
January 1946-December 1947	0 - 10.68 10.69- 53.41 53.42- 57.69 57.70- 96.15	.99X .819X+ 1.83 .8019X+ 2.74 .8119X+ 2.16	0 - 42.74 42.75- 57.69 57.70- 85.47	.99X .819X+ 7.31 .829X+ 6.73
January 1948-December 1949	0 - 12.82 12.83- 55.56 55.57- 57.69 57.70- 98.29	.99X .8406X+ 1.92 .81576X+ 3.30 .82576X+ 2.72	0 - 51.28 51.29- 57.69 57.70-136.75	.99X .8406X+ 7.66 .8506X+ 7.08
January 1950-September 1950	0 - 12.82 12.83- 55.56 55.57- 57.69 57.70- 98.29	.985X .8356X+ 1.92 .81076X+ 3.30 .82576X+ 2.43	0 - 51.28 51.29- 57.69 57.70-136.75	.985X .8356X+ 7.66 .8506X+ 6.80
October 1950-December 1950	0 - 12.82 12.83- 55.56 55.57- 57.69 57.70- 98.29	.985X .805X+ 2.31 .787X+ 3.31 .802X+ 2.44	0 - 51.28 51.29- 57.69 57.70-136.75	.985X .805X+ 9.23 .82X+ 8.37
1950 annual average <sup>2</sup>	0 - 12.82 12.83- 55.56 55.57- 57.69 57.70- 98.29	.985X .8284X+ 2.01 .80482X+ 3.32 .81982X+ 2.45	0 - 51.28 51.29- 57.69 57.70-136.75	.985X .8284X+ 8.03 .8434X+ 7.17
January 1951-October 1951	0 - 12.82 12.83- 55.56 55.57- 69.23 69.24- 98.29	.985X .805X+ 2.31 .787X+ 3.31 .802X+ 2.27	0 - 51.28 51.29- 69.23 69.24-136.75	.985X .805X+ 9.23 .82X+ 8.19
November 1951-December 1951	0 - 12.82 12.83- 55.56 55.57- 69.23 69.24- 98.29	.985X .7852X+ 2.56 .7636X+ 3.76 .7786X+ 2.72	0 - 51.28 51.29- 69.23 69.24-136.75	.985X .7852X+10.25 .8002X+ 9.21
1951 annual average <sup>2</sup>	0 - 12.82 12.83- 55.56 55.57- 69.23 69.24- 98.29	.985X .8014X+ 2.35 .7834X+ 3.35 .7984X+ 2.32	0 - 51.28 51.29- 69.23 69.24-136.75	.985X .8014X+ 9.42 .8164X+ 8.38
January 1952-December 1953	0 - 12.82 12.83- 55.56 55.57- 69.23 69.24- 98.29	.985X .7852X+ 2.56 .7636X+ 3.76 .7786X+ 2.72	0 - 51.28 51.29- 69.23 69.24-136.75	.985X .7852X+10.25 .8002X+ 9.21
January 1954-December 1954	0 - 12.82 12.83- 55.56 55.57- 69.23 69.24- 98.29	.98X .80X+ 2.31 .782X+ 3.31 .802X+ 1.92	0 - 51.28 51.29- 69.23 69.24-136.75	.98X .80X+ 9.23 .82X+ 7.85
January 1955-December 1956	0 - 12.82 12.83- 55.56 55.57- 80.77 80.78- 98.29 98.30-141.03	.98X .80X+ 2.31 .782X+ 3.31 .802X+ 1.69 .766X+ 5.23	0 - 51.28 51.29- 80.77 80.78-136.75	.98X .80X+ 9.23 .82X+ 7.62

See footnotes at end of table.

**Spendable Average Weekly Earnings Formulas, 1939-77—Continued**

Period	Worker with no dependents <sup>1</sup>		Married worker with 3 dependents <sup>1</sup>	
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
January 1957—December 1958 .....	0 - 12.82 12.83- 55.56 55.57- 80.77 80.78- 98.29 98.30-141.03	.9775X .7975X+ 2.31 .7795X+ 3.31 .802X+ 1.49 .766X+ 5.03	0 - 51.28 51.29- 80.77 80.78-136.75	.9775X .7975X+ 9.23 .82X+ 7.41
January 1959—December 1959 .....	0 - 12.82 12.83- 55.56 55.57- 92.31 92.32- 98.29 98.30-141.03	.975X .795X+ 2.31 .777X+ 3.31 .802X+ 1.00 .766X+ 4.54	0 - 51.28 51.29- 92.31 92.32-136.75	.975X .795X+ 9.23 .82X+ 6.92
January 1960—December 1961 .....	0 - 12.82 12.83- 55.56 55.57- 92.31 92.32- 98.29 98.30-141.03	.97X .79X+ 2.31 .772X+ 3.31 .802X+ .54 .766X+ 4.08	0 - 51.28 51.29- 92.31 92.32-136.75	.97X .79X+ 9.23 .82X+ 6.46
January 1962—December 1962 .....	0 - 12.81 12.82- 55.56 55.47- 92.31 92.32- 98.29 98.30-141.03	.96875X .78875X+ 2.31 .77075X+ 3.31 .802X+ .42 .766X+ 3.96	0 - 51.28 51.29- 92.31 92.32-136.75	0.96875X .78875X+ 9.23 .82X+ 6.35
January 1963—December 1963 .....	0 - 12.81 12.82- 55.56 55.57- 92.31 92.32- 98.29 98.30-141.03	.96375X .78375X+ 2.31 .76575X+ 3.31 .802X- .766X+ 3.50	0 - 51.28 51.29- 92.31 92.32-136.75	.96375X .78375X+ 9.23 .82X+ 5.88
January 1964—December 1964 .....	0 - 17.31 17.32- 26.92 26.93- 36.54 36.55- 46.15 46.16- 55.77 55.78- 57.69 57.70- 92.31 92.32- 98.28 98.29-141.02 141.03-183.77	.96375X .80375X+ 2.77 .79875X+ 2.90 .78875X+ 3.27 .78375X+ 3.50 .76375X+ 4.62 .78375X+ 3.46 .82X+ .12 .7885X+ 3.21 .757X+ 7.65	0 - 57.69 57.70- 76.92 76.93- 92.31 92.32- 96.15 96.16-115.38 115.39-136.75 136.76-192.31	.96375X .80375X+ 9.23 .79875X+ 9.62 .835X+ 6.27 .825X+ 7.23 .838X+ 5.73 .82X+ 8.19
January 1965—December 1965 .....	0 - 17.31 17.32- 26.92 26.93- 36.54 36.55- 46.15 46.16- 55.77 55.78- 57.69 57.70- 92.31 92.32- 98.28 98.29-141.02 141.03-183.77	.96375X .82375X+ 2.42 .81375X+ 2.69 .80375X+ 3.06 .79375X+ 3.52 .77375X+ 4.64 .79275X+ 3.54 .829X+ 0.19 .802X+ 2.84 .775X+ 6.65	0 - 57.69 57.70- 76.92 76.93- 92.31 92.32- 96.15 96.16-115.38 115.39-136.75 136.76-192.31	.96375X .82375X+ 8.08 .81375X+ 8.85 .85X+ 5.50 .84X+ 6.45 .847X+ 5.65 .829X+ 8.11
January—December 1966 .....	0 - 17.31 17.32- 26.92 26.93- 36.54 36.55- 46.15 46.16- 55.77 55.78- 57.69 57.70- 98.28 98.29-126.92 126.93-141.02 141.03-183.77	.958X .818X+ 2.42 .808X+ 2.69 .798X+ 3.06 .788X+ 3.52 .768X+ 4.64 .787X+ 3.54 .76X+ 6.19 .802X+ .86 .775X+ 4.67	0 - 57.69 57.70- 76.92 76.93- 96.15 96.16-115.38 115.39-126.92 126.93-136.75 136.76-192.31	.958X .818X+ 8.08 .808X+ 8.85 .798X+ 9.80 .805X+ 9.00 .847X+ 3.67 .829X+ 6.13
January 1967—December 1967 .....	0 - 17.31 17.32- 26.92 26.93- 36.54 36.55- 46.15 46.16- 55.77 55.78- 57.69 57.70- 98.28 98.29-126.92 126.93-141.02 141.03-183.77 183.78-192.31 192.32-223.07	.956X .816X+ 2.42 .806X+ 2.69 .796X+ 3.06 .786X+ 3.52 .756X+ 4.64 .735X+ 3.54 .758X+ 6.19 .802X+ .61 .775X+ 4.42 .748X+ 9.38 .720X+ 14.76	0 - 57.69 57.70- 76.92 76.93- 96.15 96.16-115.38 115.39-126.92 126.93-136.75 136.76-192.31 192.32-219.23	.956X .816X+ 8.08 .806X+ 8.85 .796X+ 9.80 .803X+ 9.00 .847X+ 3.42 .829X+ 5.88 .810X+ 9.54

See footnotes at end of table.

**Spendable Average Weekly Earnings Formulas, 1939-77—Continued**

Period	Worker with no dependents <sup>1</sup>		Married worker with 3 dependents	
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
January 1968—March 1968 .....	0 — 17.31 17.32— 26.92 26.93— 36.54 36.55— 46.15 46.16— 55.77 55.78— 57.69 57.70— 98.28 98.29—141.02 141.03—150.00 150.01—183.77 183.78—192.31 192.32—223.07 223.08—261.54	.956X .816X+ 2.42 .806X+ 2.69 .796X+ 3.06 .786X+ 3.52 .766X+ 4.64 .785X+ 3.54 .758X+ 6.19 .731X+10.00 .775X+ 3.40 .748X+ 8.36 .720X+13.74 .680X+22.67	0 — 57.69 57.70— 76.92 76.93— 96.15 96.16—115.38 115.39—136.75 136.76—150.00 150.01—192.31 192.32—219.23 219.24—296.15	.956X .816X+ 8.08 .806X+ 8.85 .796X+ 9.80 .803X+ 9.00 .785X+11.46 .829X+ 4.86 .810X+ 8.52 .780X+15.09
April 1968—December 1968 .....	0 — 17.31 17.32— 26.92 26.93— 36.54 36.55— 46.15 46.16— 53.56 53.57— 55.77 55.78— 57.69 57.70— 98.28 98.29—141.02 141.03—150.00 150.01—183.77 183.78—192.31 192.32—223.07 223.08—261.54	.956X .816X+ 2.42 .806X+ 2.69 .764X+ 4.23 .752X+ 4.78 .769X+ 3.87 .747X+ 5.10 .7679X+ 3.89 .7382X+ 6.81 .7085X+11.00 .7525X+ 4.40 .7228X+ 9.85 .692X+15.77 .648X+25.59	0 — 57.69 57.70— 76.92 76.93— 96.15 96.16—115.38 115.39—131.71 131.72—136.75 136.76—150.00 150.01—192.31 192.32—219.23 219.24—296.15	.956X .816X+ 8.08 .806X+ 8.85 .764X+12.89 .7724X+11.92 .7877X+ 9.90 .7679X+12.60 .8119X+ 6.00 .791X+10.02 .758X+17.26
1968 annual average <sup>2</sup> .....	0 — 17.31 17.32— 26.92 26.93— 36.54 36.55— 46.15 46.16— 53.56 53.57— 55.77 55.78— 57.69 57.70— 98.28 98.29—141.02 141.03—150.00 150.01—183.77 183.78—192.31 192.32—223.07 223.08—261.54	.956X .816X+ 2.42 .806X+ 2.69 .772X+ 3.94 .7605X+ 4.47 .7733X+ 3.78 .7518X+ 4.99 .7722X+ 3.81 .7432X+ 6.65 .7141X+10.75 .7581X+ 4.15 .7291X+ 9.49 .699X+15.27 .656X+24.87	0 — 57.69 57.70— 76.92 76.93— 96.15 96.16—115.38 115.39—131.71 131.72—136.75 136.76—150.00 150.01—192.31 192.32—219.23 219.24—296.15	.956X .816X+ 8.08 .806X+ 8.85 .772X+12.11 .780X+11.19 .7915X+ 9.68 .7722X+12.32 .8162X+ 5.72 .7958X+ 9.66 .7635X+16.72
January 1969—December 1969 .....	0 — 17.31 17.32— 26.92 26.93— 36.54 36.55— 46.15 46.16— 53.56 53.57— 55.77 55.78— 57.69 57.70— 98.28 98.29—141.02 141.03—150.00 150.01—183.77 183.78—192.31 192.32—223.07 223.08—261.54	.952X .812X+ 2.42 .802X+ 2.69 .760X+ 4.23 .748X+ 4.78 .765X+ 3.87 .743X+ 5.10 .7639X+ 3.89 .7342X+ 6.81 .7045X+11.00 .7525X+ 3.80 .7228X+ 9.26 .692X+15.17 .648X+25.00	0 — 57.69 57.70— 76.92 76.93— 96.15 96.16—115.38 115.39—131.71 131.72—136.75 136.76—150.00 150.01—192.31 192.32—219.23 219.24—296.15	.952X .812X+ 8.08 .802X+ 8.85 .760X+12.89 .7684X+11.92 .7837X+ 9.90 .7639X+12.61 .8119X+ 5.41 .791X+ 9.43 .758X+16.66
January 1970—December 1970 .....	0 — 33.17 33.18— 39.59 39.60— 46.00 46.01— 52.40 52.41— 57.31 57.32— 58.82 58.83— 62.88 62.89— 98.82 98.83—141.56 141.57—150.00 150.01—184.28 184.29—192.31 192.32—223.56 223.57—262.02	.952X .742X+ 6.97 .727X+ 7.56 .700X+ 8.80 .6842X+ 9.62 .6906X+ 9.26 .6599X+11.07 .7767X+ 3.72 .749X+ 6.46 .7214X+10.38 .7694X+ 3.18 .7417X+ 8.27 .713X+13.79 .672X+22.96	0 — 69.23 69.24— 82.06 82.07— 88.46 88.47— 98.08 98.09—115.38 115.39—117.50 117.51—133.85 133.86—138.87 138.88—150.00 150.01—192.31 192.32—221.15 221.16—298.08	.952X .742X+14.54 .727X+15.77 .802X+ 9.14 .784X+10.90 .801X+ 8.96 .7913X+10.08 .7952X+ 9.56 .7767X+12.12 .8247X+ 4.92 .8052X+ 8.67 .7745X+15.47

See footnotes at end of table.

**Spendable Average Weekly Earnings Formulas, 1939-77—Continued**

Period	Worker with no dependents <sup>1</sup>		Married worker with 3 dependents <sup>1</sup>		
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)	
January 1971—December 1971 .....	0 — 33.17	.948X	0 — 72.12	.948X	
	33.18— 42.79	.808X+ 4.64	72.13— 91.35	.808X+10.10	
	42.80— 52.40	.798X+ 5.07	91.36—110.58	.798X+11.01	
	52.41— 62.02	.788X+ 5.59	110.59—129.81	.788X+12.11	
	62.03— 71.63	.778X+ 6.21	129.82—149.04	.778X+13.42	
	71.64—110.10	.758X+ 7.65	149.05—150.00	.758X+16.40	
	110.11—148.56	.738X+ 9.85	150.01—155.33	.81X+ 8.60	
	148.57—150.00	.708X+14.30	155.34—221.89	.8347X+ 4.76	
	150.01—155.33	.76X+ 6.50	221.90—234.62	.81X+10.24	
	155.34—191.75	.7912X+ 1.66	234.63—311.54	.78X+17.28	
	191.76—221.88	.7825X+ 3.33			
	221.89—234.13	.75X+10.54			
	234.14—272.60	.73X+15.23			
	January 1972—December 1972 .....	0 — 39.42	.948X	0 — 82.69	.948X
		39.43— 49.04	.808X+ 5.52	82.70—101.92	.808X+11.58
49.05— 58.65		.798X+ 6.01	101.93—121.15	.798X+12.60	
58.66— 68.27		.788X+ 6.59	121.16—140.38	.788X+13.80	
68.28— 77.88		.778X+ 7.28	140.39—159.62	.778X+15.21	
77.89—116.35		.758X+ 8.84	159.63—166.67	.758X+18.41	
116.36—154.81		.738X+11.16	166.68—173.01	.7865X+13.66	
154.82—166.67		.708X+15.80	173.02—248.87	.8385X+ 4.66	
166.68—173.08		.744X+ 9.80	248.88—256.40	.813X+11.00	
173.09—197.96		.796X+ .80	256.41—326.92	.78X+19.46	
197.97—243.21		.7875X+ 2.49			
243.22—256.40		.7705X+ 6.63			
256.41—283.65		.73X+17.01			
January 1973—December 1973 .....		0 — 39.42	.9415X	0 — 82.69	.9415X
		39.43— 49.04	.8015X+ 5.52	82.70—101.92	.8015X+11.58
	49.05— 58.65	.7915X+ 6.01	101.93—121.15	.7915X+12.60	
	58.66— 68.27	.7815X+ 6.59	121.16—140.38	.7815X+13.80	
	68.28— 77.88	.7715X+ 7.28	140.39—159.62	.7715X+15.21	
	77.89—116.35	.7515X+ 8.84	159.63—166.67	.7515X+18.41	
	116.36—154.81	.7315X+11.16	166.68—207.69	.78X+13.66	
	154.82—166.67	.7015X+15.80	207.70—248.87	.8385X+ 1.51	
	166.68—197.96	.7375X+ 9.80	248.88—256.40	.813X+ 7.85	
	197.97—207.69	.729X+11.49	256.41—326.92	.78X+16.31	
	207.70—243.21	.7875X— .66			
	243.22—256.40	.7705X+ 3.48			
	256.41—283.65	.73X+13.86			
	January 1974—December 1974 .....	0 — 39.42	.9415X	0 — 82.69	.9415X
		39.43— 49.04	.8015X+ 5.52	82.70—101.92	.8015X+11.58
49.05— 58.65		.7915X+ 6.01	101.93—121.15	.7915X+12.60	
58.66— 68.27		.7815X+ 6.59	121.16—140.38	.7815X+13.80	
68.28— 77.88		.7715X+ 7.28	140.39—159.62	.7715X+15.21	
77.89—116.35		.7515X+ 8.84	159.63—166.67	.7515X+18.41	
116.36—154.81		.7315X+11.16	166.68—248.87	.78X+13.66	
154.82—166.67		.7015X+15.80	248.88—253.85	.7545X+20.00	
166.68—197.96		.7375X+ 9.80	253.86—256.40	.813X+ 5.15	
197.97—243.21		.729X+11.49	256.41—326.92	.78X+13.61	
243.22—253.85		.712X+15.63	326.93—403.85	.75X+23.42	
253.86—256.40		.7705X+ .78			
256.41—283.65		.73X+11.16			
283.66—322.12		.71X+16.83			
322.13—360.58		.69X+23.27			
January 1975—April 1975 .....	0 — 39.42	.9415X	0 — 82.69	.9415X	
	39.43— 49.04	.8015X+ 5.52	82.70—101.92	.8015X+11.58	
	49.05— 58.65	.7915X+ 6.01	101.93—121.15	.7915X+12.60	
	58.66— 68.27	.7815X+ 6.59	121.16—140.38	.7815X+13.80	
	68.28— 77.88	.7715X+ 7.28	140.39—159.62	.7715X+15.21	
	77.89—116.35	.7515X+ 8.84	159.63—166.67	.7515X+18.41	
	116.36—154.81	.7315X+11.16	166.68—248.87	.78X+13.66	
	154.82—166.67	.7015X+15.80	248.88—256.40	.7545X+20.00	
	166.68—197.96	.7375X+ 9.80	256.41—271.15	.7215X+28.46	
	197.97—243.21	.729X+11.49	271.16—326.92	.78X+12.60	
	243.22—256.40	.712X+15.63	326.93—403.85	.75X+22.41	
	256.41—271.15	.6715X+26.01			
	271.16—283.65	.73X+10.15			
	283.66—322.12	.71X+15.82			
	322.13—360.58	.69X+22.26			
360.59—399.04	.66X+33.08				

See footnotes at end of table.

### Spensible Average Weekly Earnings Formulas, 1939-77—Continued

Period	Worker with no dependents <sup>1</sup>		Married worker with 3 dependents <sup>1</sup>	
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
May 1975—December 1975 .....	0 — 54.52	.9415X	0 — 139.06	.9415X
	54.53— 54.81	.8065X+ 7.36	139.07—140.38	.6315X+43.11
	54.82— 58.65	.7915X+ 8.17	140.39—151.92	.6365X+42.41
	58.66— 64.42	.7965X+ 7.88	151.93—153.85	.6215X+44.70
	64.43— 68.27	.7815X+ 8.86	153.86—159.62	.7715X+21.63
	68.28— 74.04	.7865X+ 8.51	159.63—166.67	.7815X+20.03
	74.05— 77.88	.7715X+ 9.62	166.68—171.15	.7673X+22.41
	77.89— 83.65	.7815X+ 8.84	171.16—228.37	.7373X+27.54
	83.66—116.35	.7515X+11.35	228.38—248.87	.7829X+17.13
	116.36—122.12	.7615X+10.19	248.88—251.83	.7956X+13.96
	122.13—154.81	.7315X+13.85	251.84—256.40	.7578X+23.47
	154.82—160.58	.7465X+11.53	256.41—271.15	.7743X+19.24
	160.59—166.67	.7015X+18.76	271.16—312.50	.8328X+ 3.38
	166.68—192.31	.6835X+21.76	312.51—326.92	.78X+19.88
	192.32—197.96	.7411X+10.67	326.93—338.46	.795X+14.97
	197.97—200.32	.7454X+ 9.83	338.47—403.85	.75X+30.21
	200.33—243.21	.7328X+12.36	403.86—415.38	.765X+24.15
	243.22—246.11	.7413X+10.29		
	246.12—256.40	.7161X+16.50		
	256.41—271.15	.7363X+11.31		
	271.16—276.44	.7948X— 4.55		
	276.45—283.65	.73X+13.36		
	283.66—289.42	.74X+10.53		
	289.43—322.12	.71X+19.20		
	322.13—327.88	.72X+15.98		
	327.89—360.58	.69X+25.82		
	360.59—366.35	.705X+20.41		
	366.36—399.04	.66X+36.91		
	399.05—404.81	.67X+32.92		
1975 annual average <sup>2</sup> .....	0 — 49.31	.9415X	0 — 128.08	.9415X
	49.32— 54.81	.8015X+ 6.91	128.09—132.69	.6915X+32.02
	54.82— 64.42	.7915X+ 7.45	132.70—151.92	.6815X+33.34
	64.43— 74.04	.7815X+ 8.10	151.93—153.85	.6715X+34.87
	74.05— 83.65	.7715X+ 8.84	153.86—171.15	.7715X+19.49
	83.66—122.12	.7515X+10.51	171.16—228.37	.7515X+22.91
	122.13—160.58	.7315X+12.95	228.38—251.83	.7819X+15.97
	160.59—192.31	.7015X+17.77	251.84—271.15	.7567X+22.31
	192.32—200.32	.7399X+10.38	271.16—312.50	.8152X+ 6.45
	200.33—246.11	.7315X+12.07	312.51—338.46	.78X+17.45
	246.12—271.15	.7147X+16.21	338.47—415.38	.75X+27.61
	271.16—276.44	.7732X+ .35		
	276.45—289.42	.73X+12.29		
	289.43—327.88	.71X+18.07		
	327.89—366.35	.69X+24.63		
	366.36—404.81	.66X+35.63		
January 1976—December 1976 .....	0 — 51.92	.9415X	0 — 131.92	.9415X
	51.93— 56.73	.8015X+ 7.27	131.93—136.54	.6915X+32.98
	56.74— 66.35	.7915X+ 7.83	136.55—153.85	.6815X+34.34
	66.36— 75.96	.7815X+ 8.50	153.86—155.77	.7815X+18.96
	75.97— 80.77	.7715X+ 9.25	155.78—175.00	.7715X+20.52
	80.78— 85.58	.7915X+ 7.64	175.01—232.69	.7515X+24.02
	85.59—124.04	.7715X+ 9.36	232.70—251.92	.7715X+19.37
	124.05—162.50	.7515X+11.84	251.93—252.40	.7415X+26.92
	162.51—200.96	.7215X+16.71	252.41—274.73	.7735X+18.85
	200.97—204.33	.7115X+18.72	274.74—294.23	.7567X+23.46
	204.34—223.21	.7483X+11.20	294.24—336.54	.8152X+ 6.25
	223.22—246.11	.7315X+14.95	336.55—342.31	.78X+18.10
	246.12—288.46	.7147X+19.09	342.32—419.23	.75X+28.37
	288.47—291.35	.6715X+31.55	419.24—496.15	.72X+40.94
	291.36—294.23	.6515X+37.37	496.16—573.08	.68X+60.79
	294.24—329.81	.71X+20.16	573.09—650.00	.64X+83.71
	329.82—368.27	.69X+26.76	650.01—726.92	.61X+103.21
	368.28—406.73	.66X+37.81		
	406.74—445.19	.64X+45.94		

See footnotes at end of table

## Spensible Average Weekly Earnings Formulas, 1939-77—Continued

Period	Worker with no dependents <sup>1</sup>		Married worker with 3 dependents <sup>1</sup>		
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)	
January 1977—May 1977 .....	0 - 51.92	.9415X	0 - 131.92	.9415X	
	51.93- 56.73	.8015X+ 7.27	131.93-136.54	.6915X+ 32.98	
	56.74- 66.35	.7915X+ 7.83	136.55-153.85	.6815X+ 34.34	
	66.36- 75.96	.7815X+ 8.50	153.86-155.77	.7815X+ 18.96	
	75.97- 80.77	.7715X+ 9.25	155.78-175.00	.7715X+ 20.52	
	80.78- 85.58	.7915X+ 7.64	175.01-232.69	.7515X+ 24.02	
	85.59-124.04	.7715X+ 9.36	232.70-251.92	.7715X+ 19.37	
	124.05-162.50	.7515X+11.84	251.93-252.40	.7415X+ 26.92	
	162.51-200.96	.7215X+16.71	252.41-274.73	.7735X+ 18.85	
	200.97-204.33	.7115X+18.72	274.74-317.31	.7567X+ 23.46	
	204.34-223.21	.7483X+11.20	317.32-336.54	.8152X+ 4.90	
	223.22-246.11	.7315X+14.95	336.55-342.31	.78X+ 16.75	
	246.12-288.46	.7147X+19.09	342.32-419.23	.75X+ 27.02	
	288.47-291.35	.6715X+31.55	419.24-496.15	.72X+ 39.59	
	291.36-317.31	.6515X+37.37	496.16-573.08	.68X+ 59.44	
	317.32-329.81	.71X+18.81	573.09-650.00	.64X+ 82.36	
	329.82-368.27	.69X+25.41	650.01-726.92	.61X+101.86	
	368.28-406.73	.66X+36.46			
	406.74-445.19	.64X+44.59			
	June 1977—December 1977 .....	0 - 68.72	.9415X	0 - 154.37	.9415X
		68.73- 75.96	.7986X+ 9.82	154.38-155.77	.7986X+ 22.06
		75.97- 80.77	.7886X+10.59	155.78-157.69	.8058X+ 20.95
		80.78- 85.58	.7744X+11.74	157.70-175.00	.7886X+ 23.64
		85.59- 90.38	.7715X+11.98	175.01-176.92	.8029X+ 21.14
		90.39- 95.19	.8058X+ 8.90	176.93-196.15	.7858X+ 24.19
		95.20-124.04	.7715X+12.17	196.16-232.69	.7515X+ 30.91
		124.05-133.65	.7858X+10.40	232.70-251.92	.7372X+ 34.23
		133.66-162.50	.7515X+14.98	251.93-252.40	.7586X+ 28.84
162.51-172.12		.7729X+11.50	252.41-253.85	.7358X+ 34.60	
172.13-200.96		.7215X+20.34	253.86-273.08	.7701X+ 25.91	
200.97-204.33		.7286X+18.91	273.09-274.73	.7186X+ 39.95	
204.34-210.58		.7024X+24.28	274.74-292.31	.7306X+ 36.66	
210.59-223.21		.6852X+27.90	292.32-317.31	.6964X+ 46.67	
223.22-229.81		.6972X+25.22	317.32-336.54	.7549X+ 28.11	
229.82-246.11		.6629X+33.09	336.55-342.31	.78X+ 19.65	
246.12-249.04		.6749X+30.13	342.32-350.00	.8014X+ 12.31	
249.05-287.50		.6406X+38.67	350.01-419.23	.75X+ 30.31	
287.51-288.46		.6064X+48.52	419.24-426.92	.7714X+ 21.33	
288.47-291.35		.6372X+39.62	426.93-496.15	.72X+ 43.29	
291.36-317.31		.6515X+35.47	496.16-503.85	.7486X+ 29.11	
317.32-325.96		.71X+16.91	503.86-573.08	.68X+ 63.66	
325.97-329.81		.6757X+28.08	573.09-580.77	.7086X+ 47.29	
329.82-364.42		.69X+23.37	580.78-650.00	.64X+ 87.11	
364.43-368.27		.6386X+42.11	650.01-657.69	.6614X+ 73.18	
368.28-402.88		.66X+34.21	657.70-726.92	.61X+107.00	
402.89-406.73		.6257X+48.03			
406.74-441.35		.64X+42.22			
1977 Annual Average <sup>2</sup> .....		0 - 61.54	.9415X	0 - 144.62	.9415X
		61.55- 66.35	.8015X+ 8.61	144.63-153.85	.6915X+ 36.15
		66.36- 75.96	.7915X+ 9.27	153.86-157.69	.7915X+ 20.77
		75.97- 85.58	.7815X+10.03	157.70-176.92	.7815X+ 22.34
	85.59- 90.38	.7715X+10.89	176.93-196.15	.7715X+ 24.12	
	90.39- 95.19	.7915X+ 9.09	196.16-253.85	.7515X+ 28.04	
	95.20-133.65	.7715X+11.00	253.86-273.08	.7715X+ 22.97	
	133.66-172.12	.7515X+13.67	273.09-292.31	.7415X+ 31.16	
	172.13-210.58	.7215X+18.83	292.32-317.31	.7215X+ 37.00	
	210.59-229.81	.7115X+20.94	317.32-350.00	.78X+ 18.44	
	229.82-249.04	.6915X+25.53	350.01-426.92	.75X+ 28.94	
	249.05-287.50	.6715X+30.51	426.93-503.85	.72X+ 41.75	
	287.51-317.31	.6515X+36.26	503.86-580.77	.68X+ 61.90	
	317.32-325.96	.71X+17.70	580.78-657.69	.64X+ 85.13	
	325.97-364.42	.69X+24.22	657.70-734.62	.61X+104.86	
	364.43-402.88	.66X+35.15			
	402.89-441.35	.64X+43.21			
	441.36-479.81	.62X+52.03			
	479.82-556.73	.60X+61.63			

<sup>1</sup> For workers who earned the average weekly earnings.

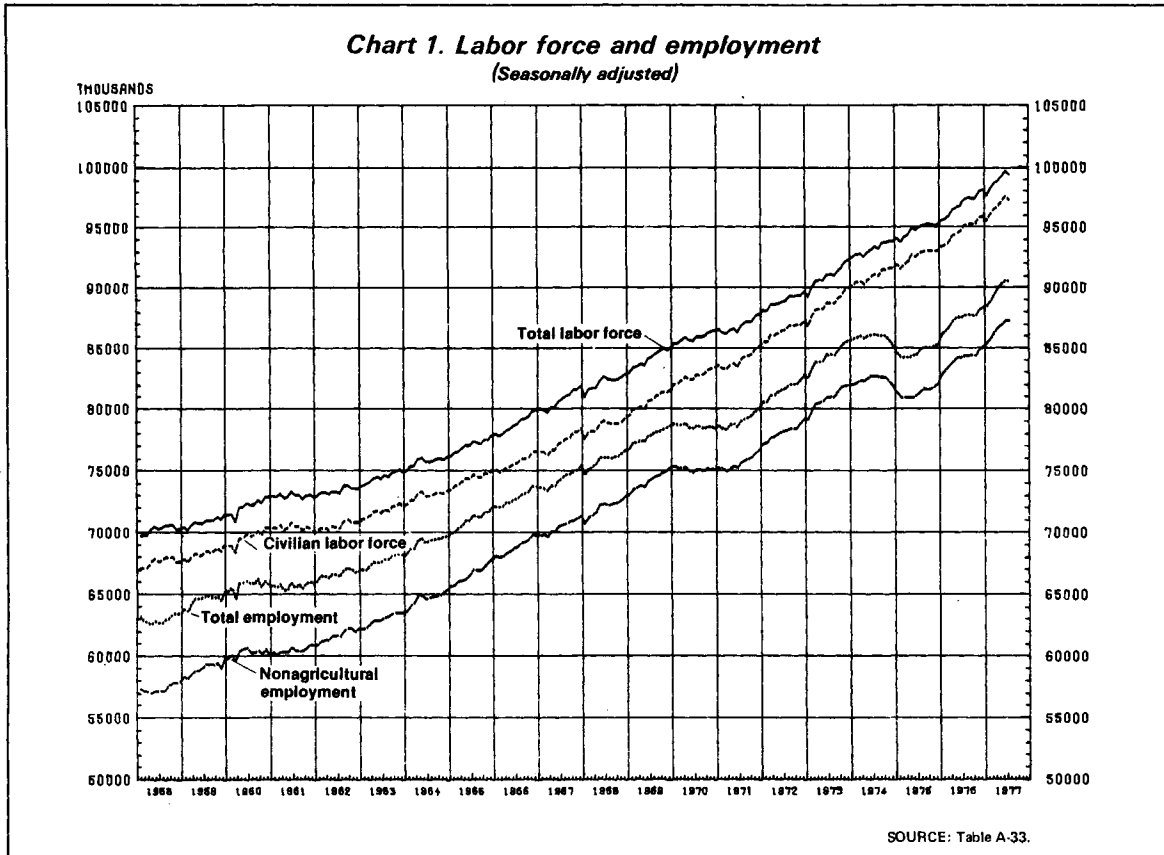
<sup>2</sup> Formulas for computing annual averages take into account the changes during the year in income tax rates.



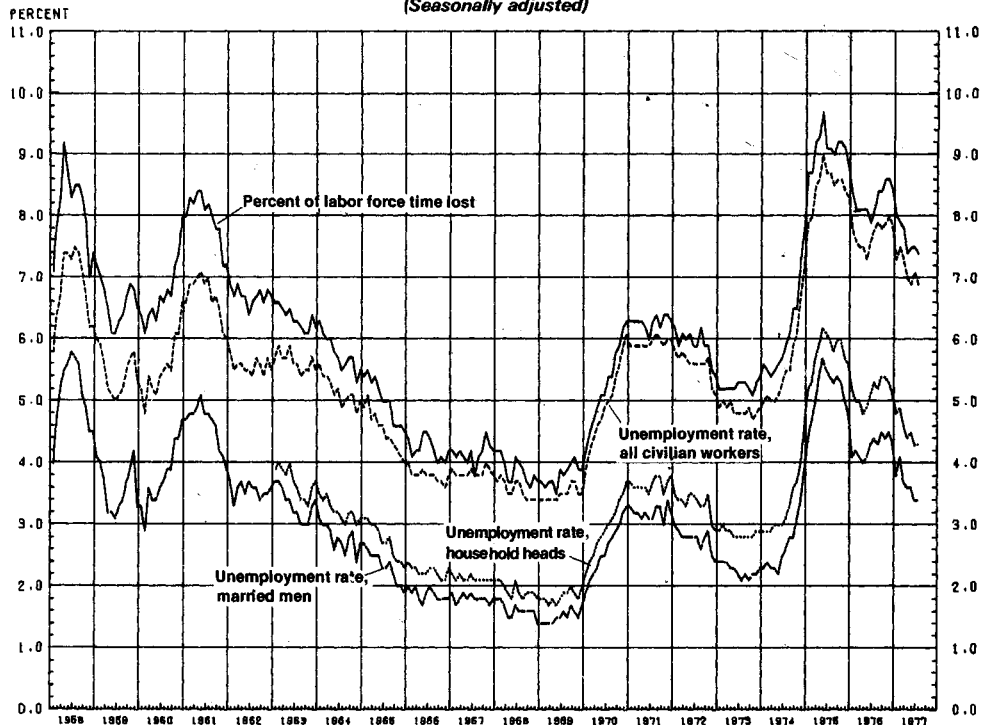
# CHARTS

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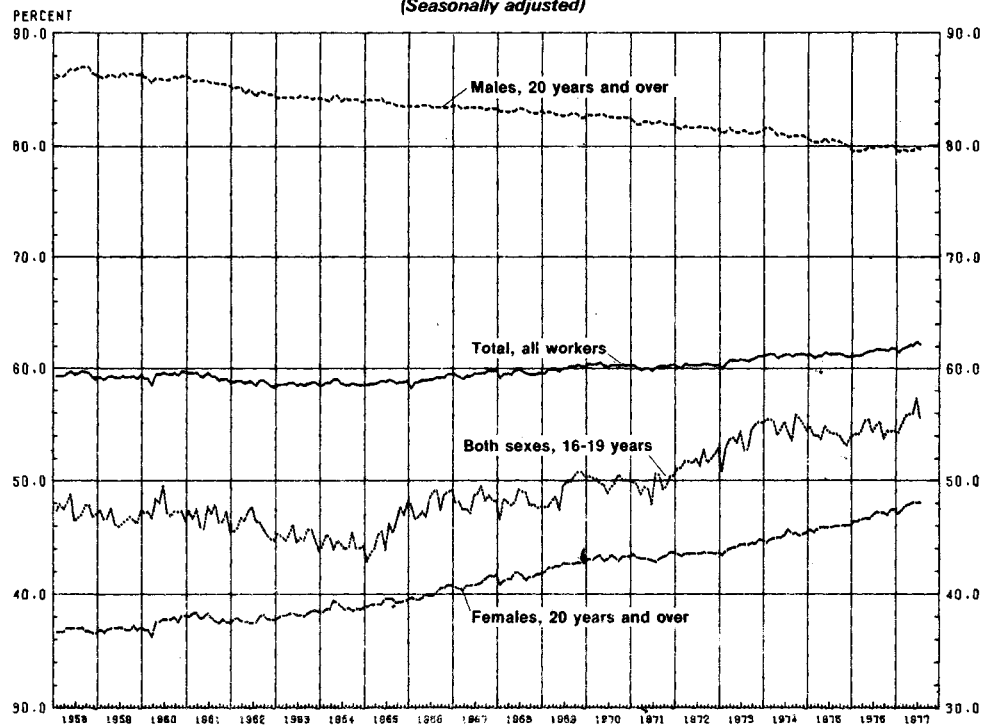


**Chart 2. Major unemployment indicators**  
(Seasonally adjusted)



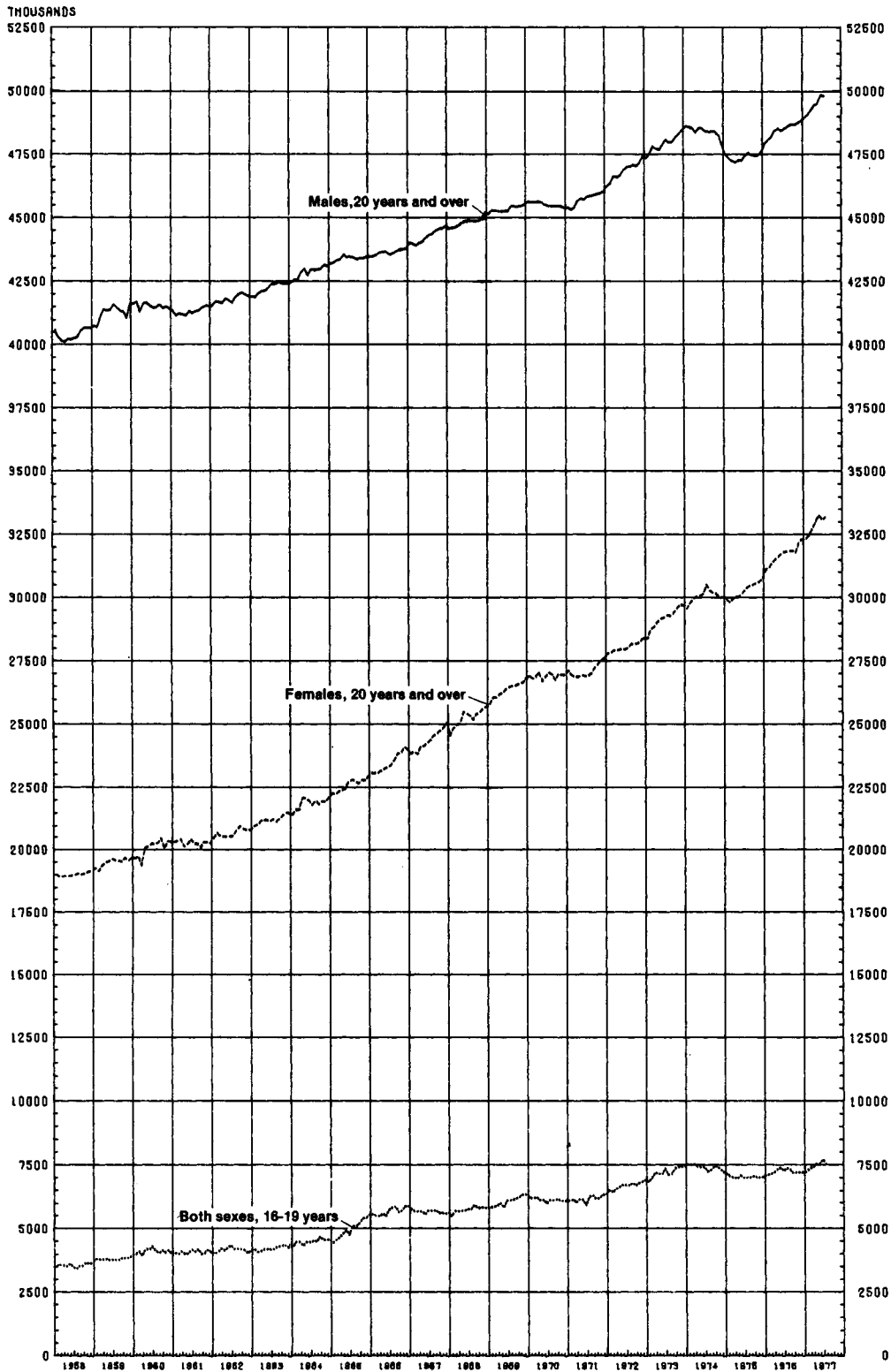
SOURCE: Table A-36.

**Chart 3. Civilian labor force participation rates by sex and age**  
(Seasonally adjusted)



SOURCE: Table A-33.

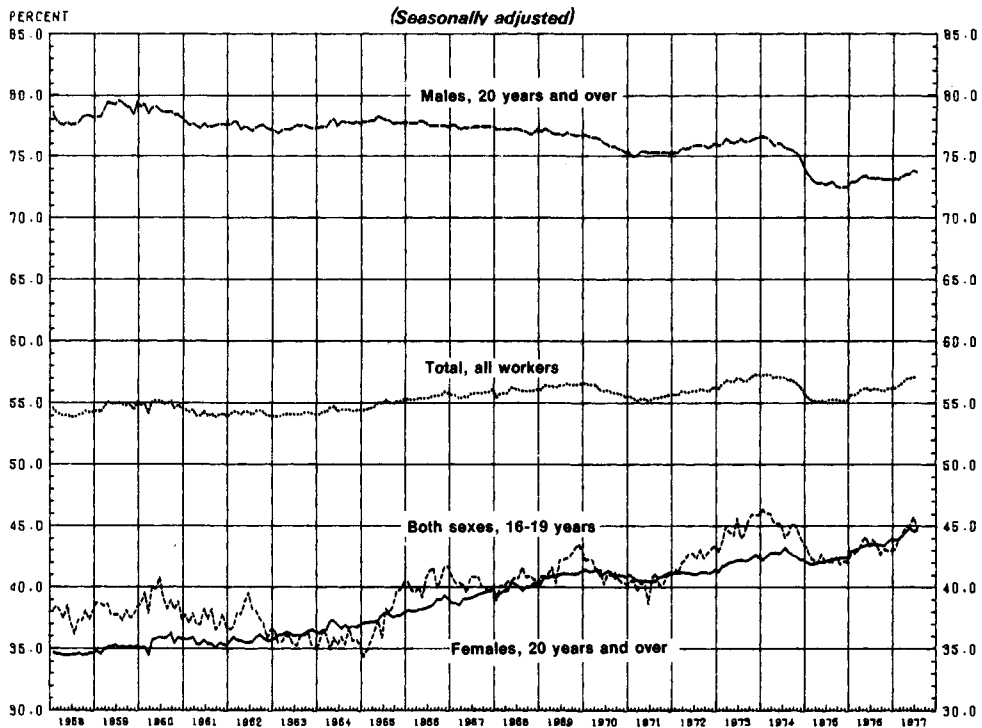
**Chart 4. Total employment by sex and age**  
*(Seasonally adjusted)*



SOURCE: Table A-33.

**Chart 5. Employment—population ratios by sex and age**

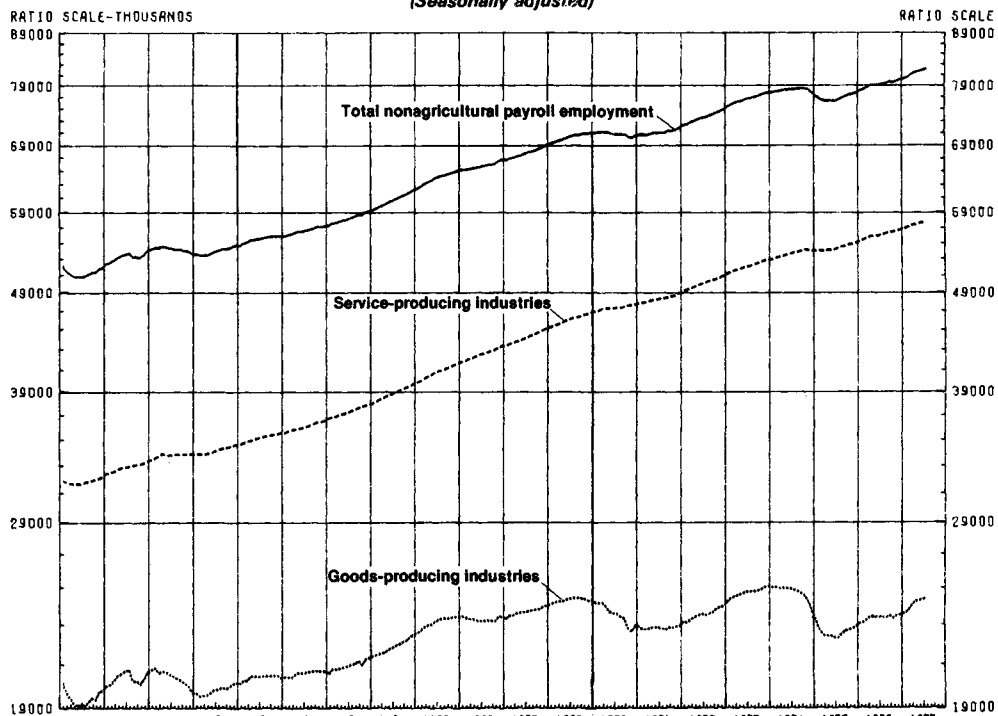
*(Seasonally adjusted)*



SOURCE: Table A-33.

**Chart 6. Payroll employment in goods- and service-producing industries**

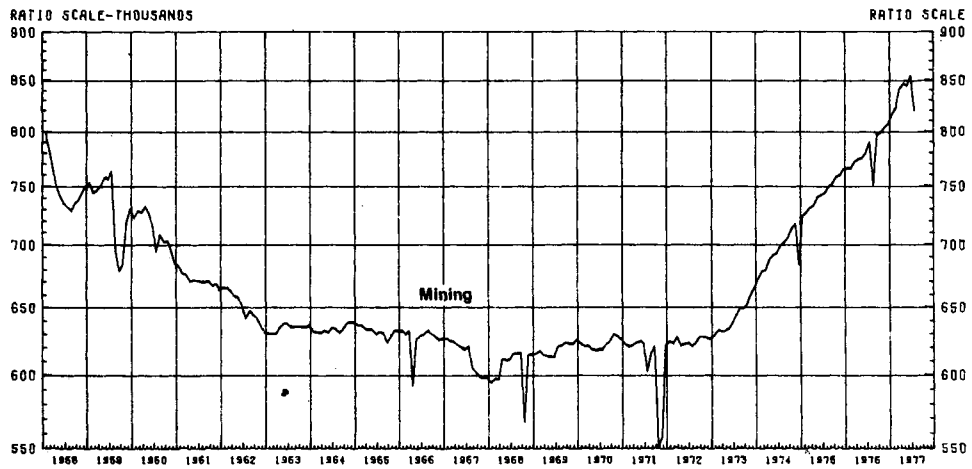
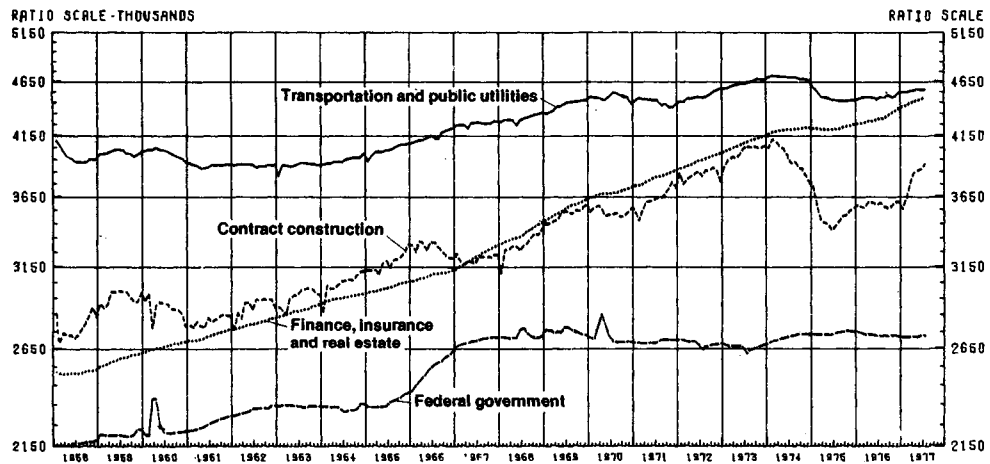
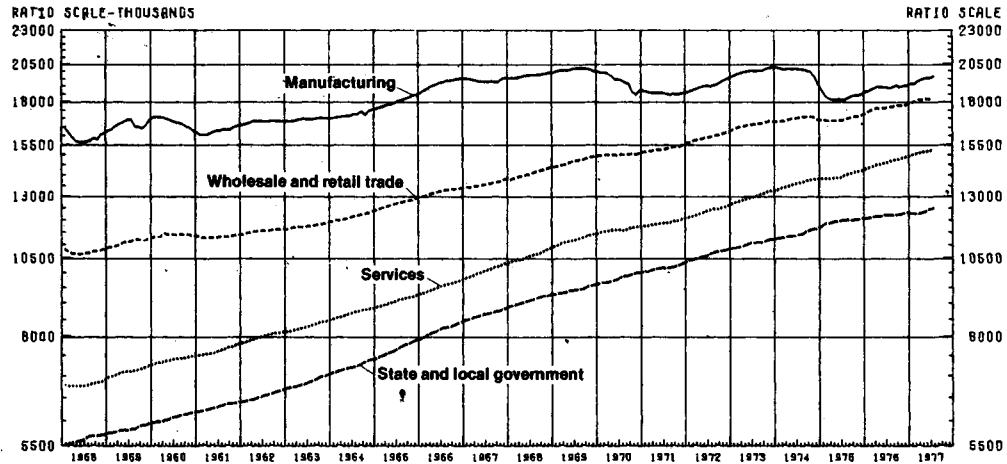
*(Seasonally adjusted)*



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-5.

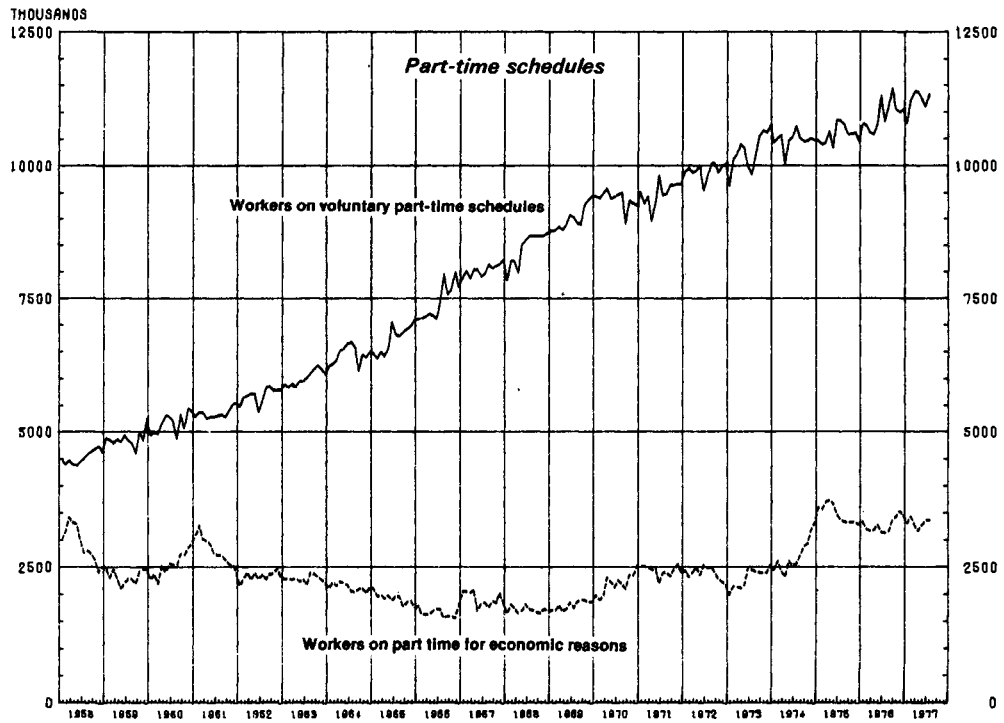
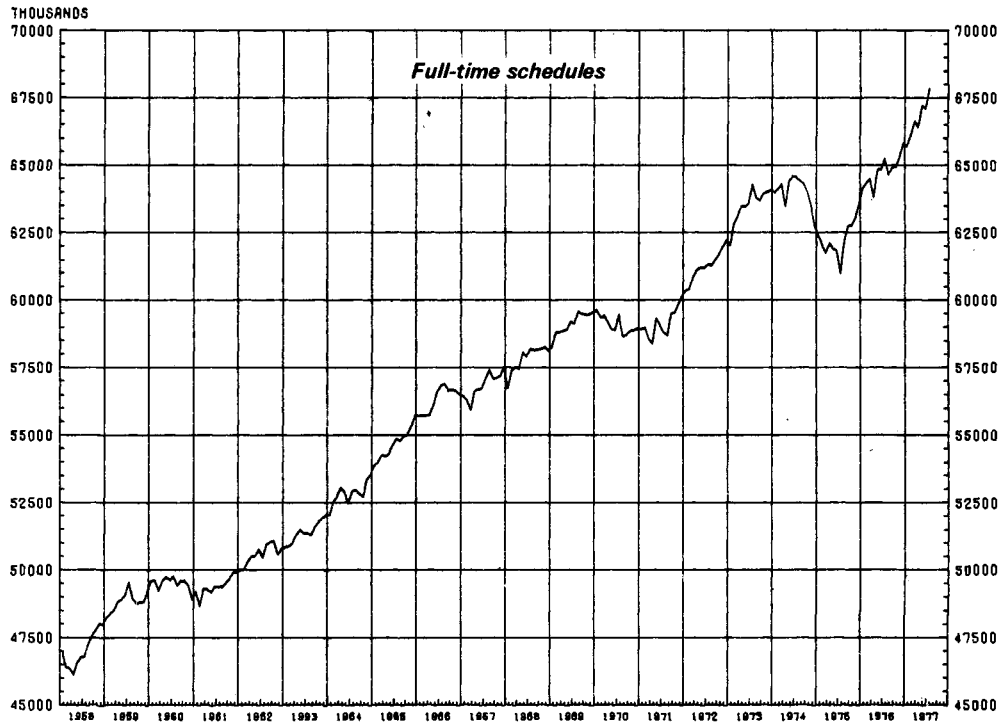
**Chart 7. Nonagricultural payroll employment by industry**  
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

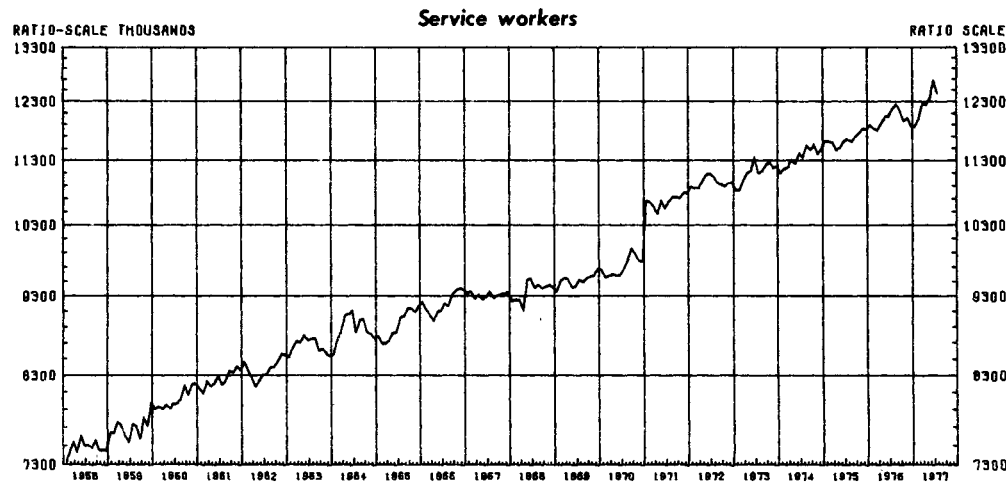
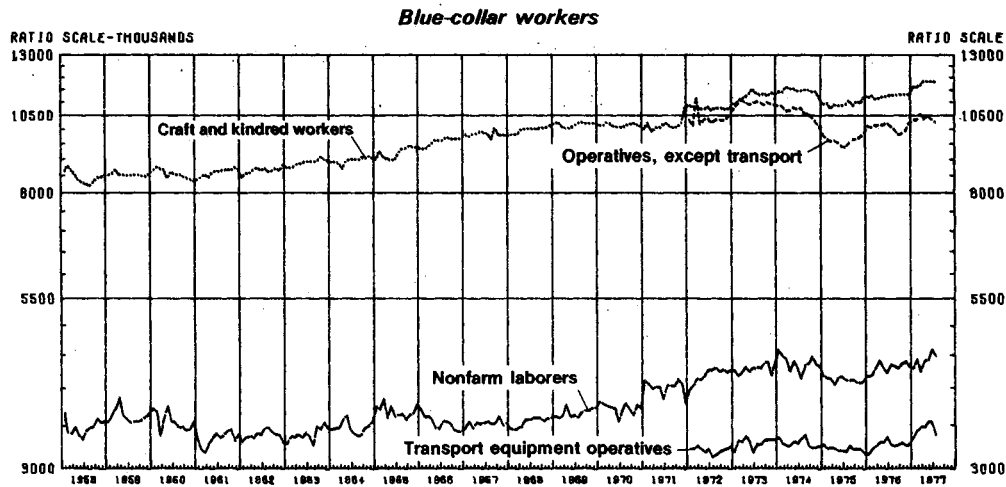
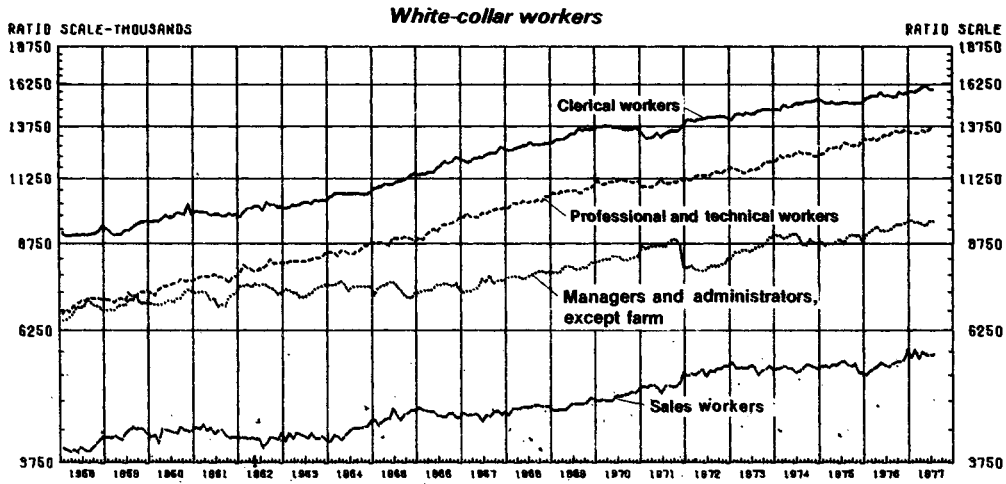
SOURCE: Table B-5.

**Chart 8. Persons at work full and part time  
in nonagricultural industries**  
(Seasonally adjusted)



SOURCE: Table A-42.

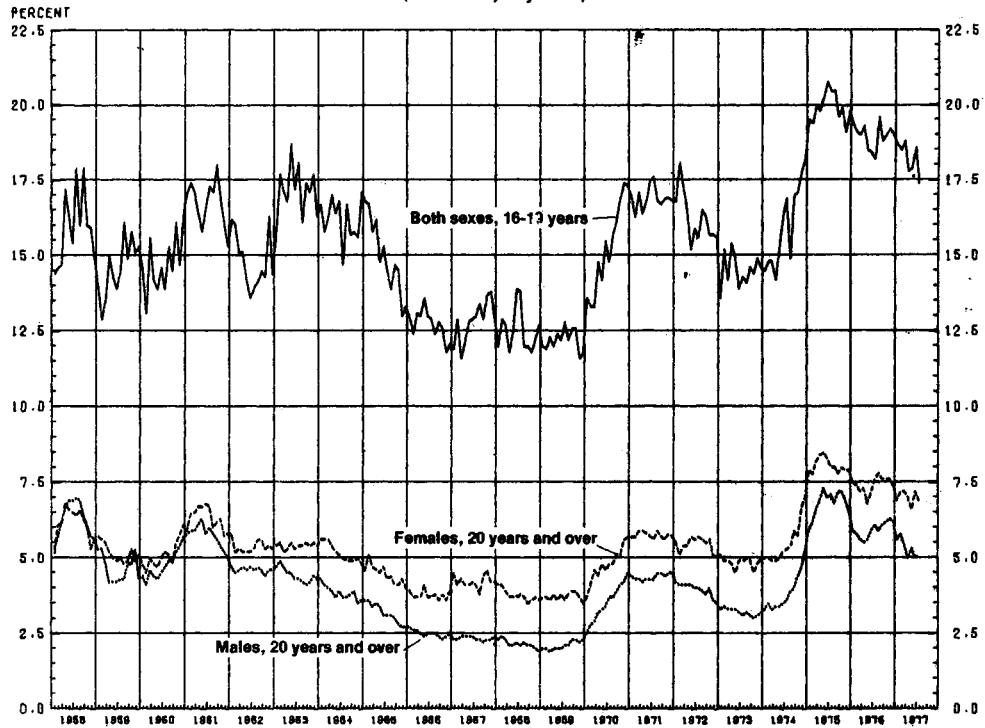
**Chart 9. Employment in nonfarm occupations**  
(Seasonally adjusted)



NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

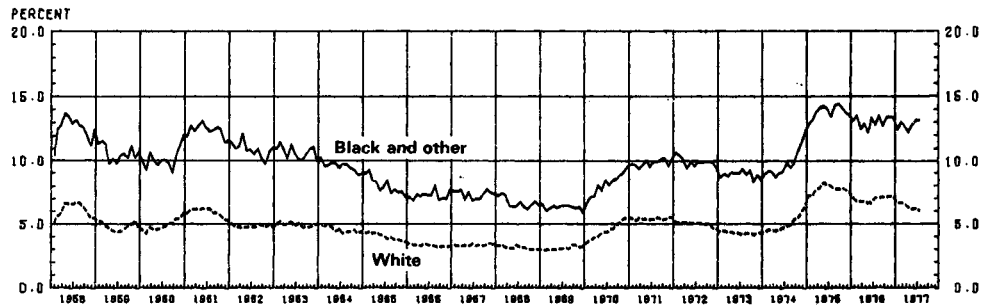
SOURCE: Table A-42.

**Chart 10. Unemployment rates by sex and age**  
(Seasonally adjusted)

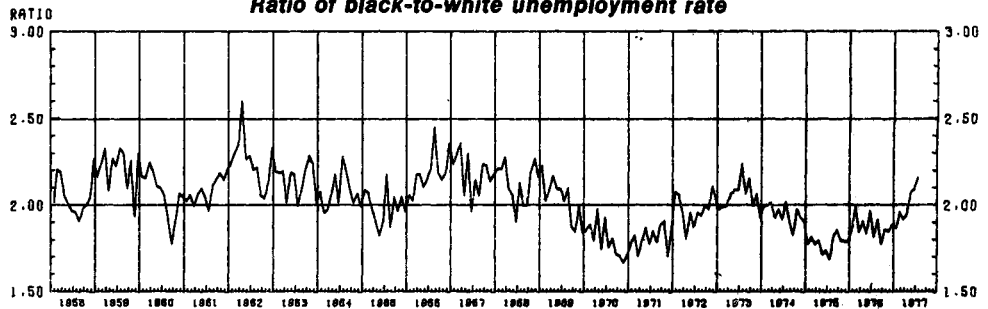


SOURCE: Table A-36.

**Chart 11. Unemployment rates by race**  
(Seasonally adjusted)



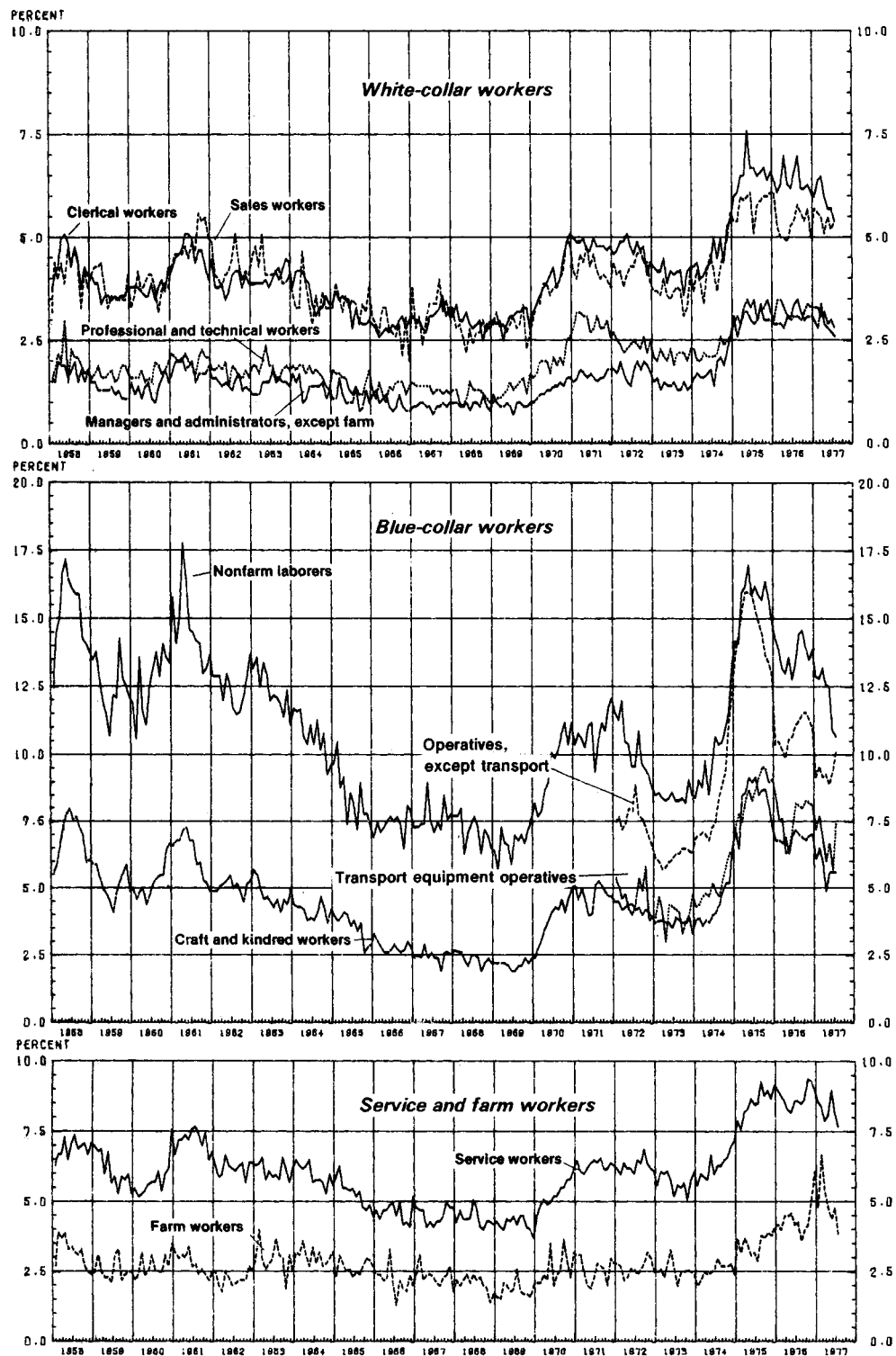
**Ratio of black-to-white unemployment rate**



SOURCE: Table A-35.

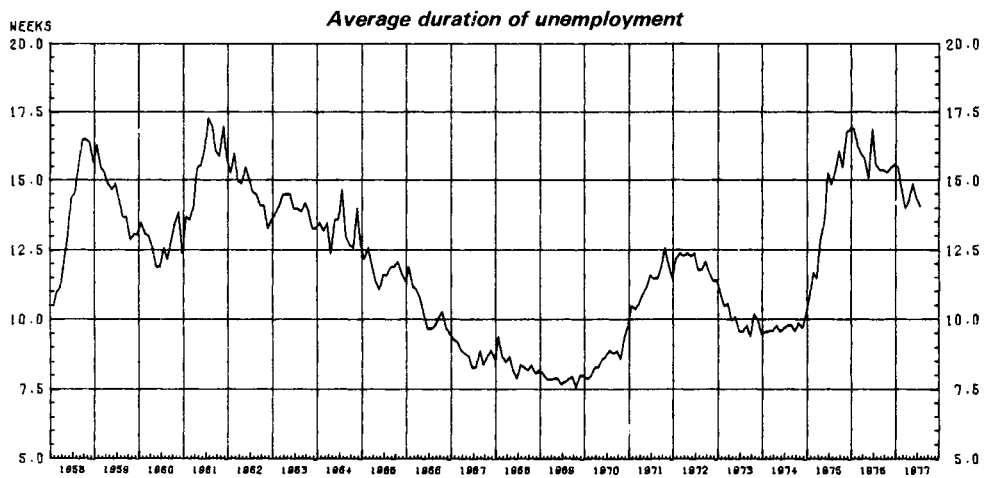
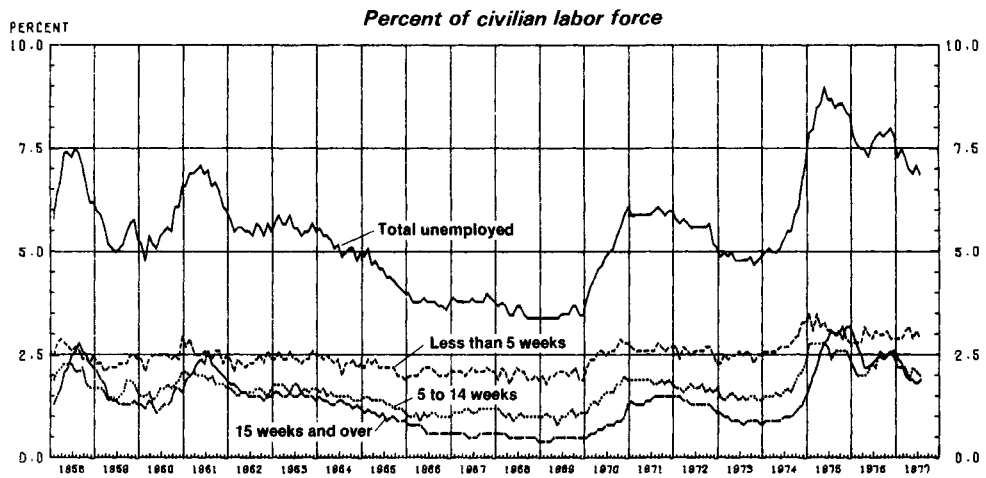
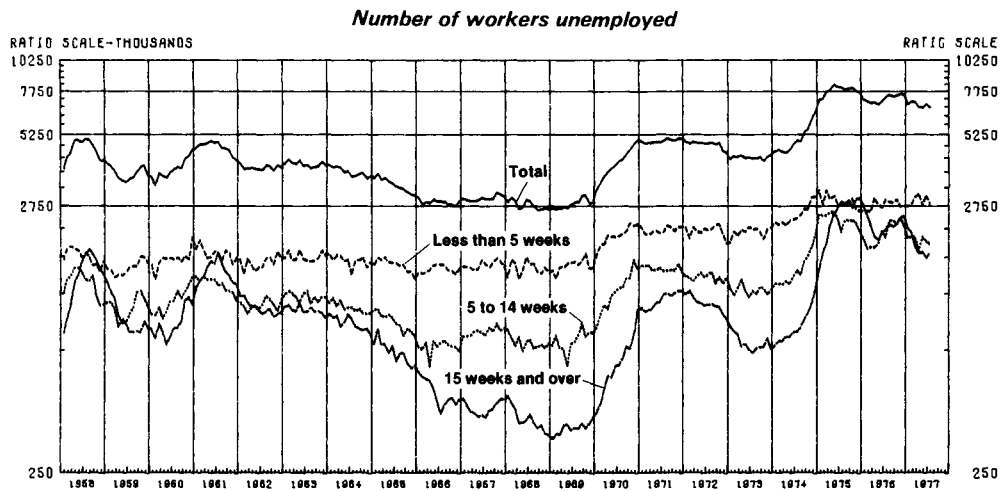


**Chart 12. Unemployment rates by major occupational groups**  
(Seasonally adjusted)



SOURCE: Table A-36.

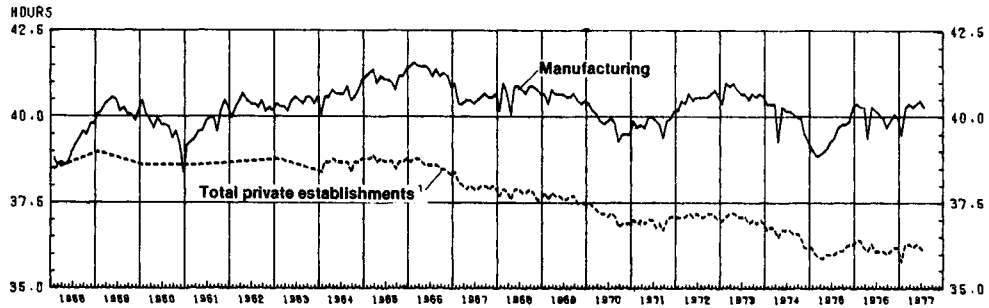
**Chart 13. Duration of unemployment**  
(Seasonally adjusted)



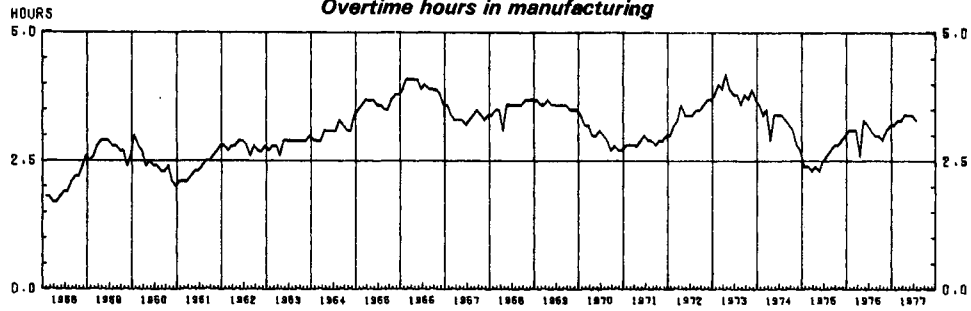
SOURCE: Table A-37.

**Chart 14. Average weekly hours in nonagricultural industries**

*(Seasonally adjusted)*



**Overtime hours in manufacturing**



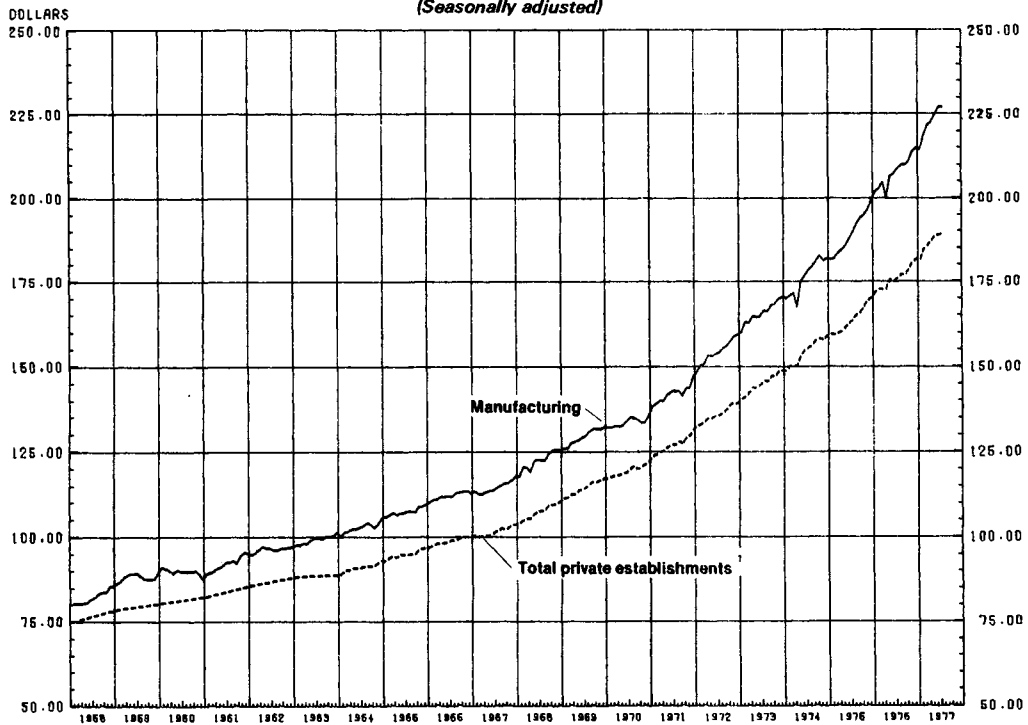
<sup>1</sup> Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

**Chart 15. Average weekly earnings in nonagricultural industries**

*(Seasonally adjusted)*

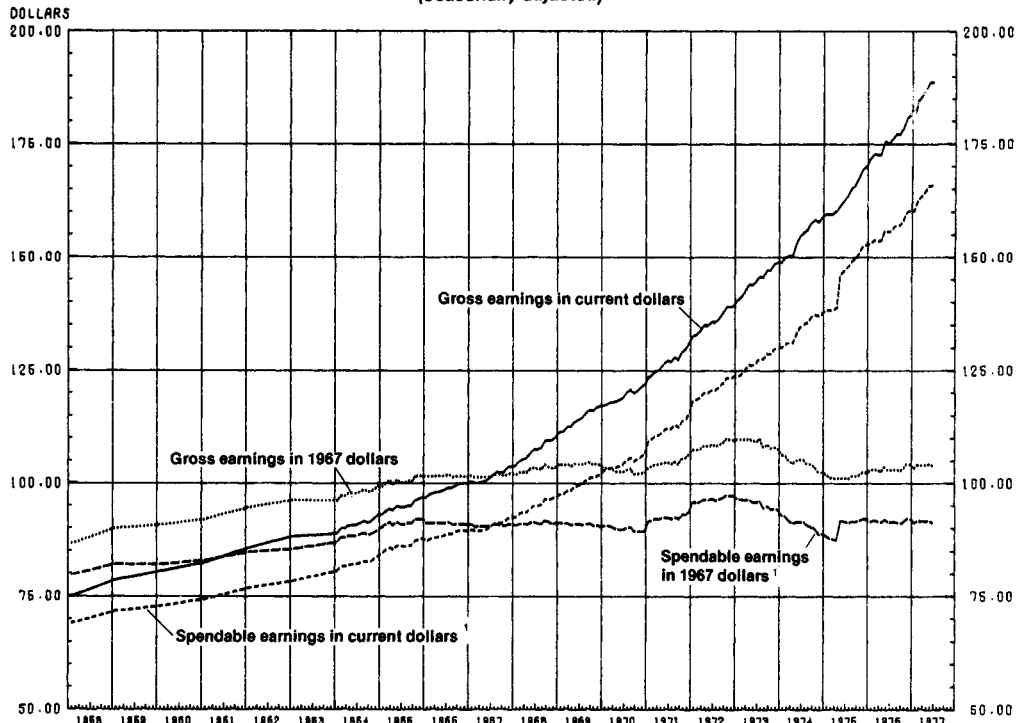


<sup>1</sup> Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

**Chart 16. Total private gross and spendable weekly earnings**  
(Seasonally adjusted)

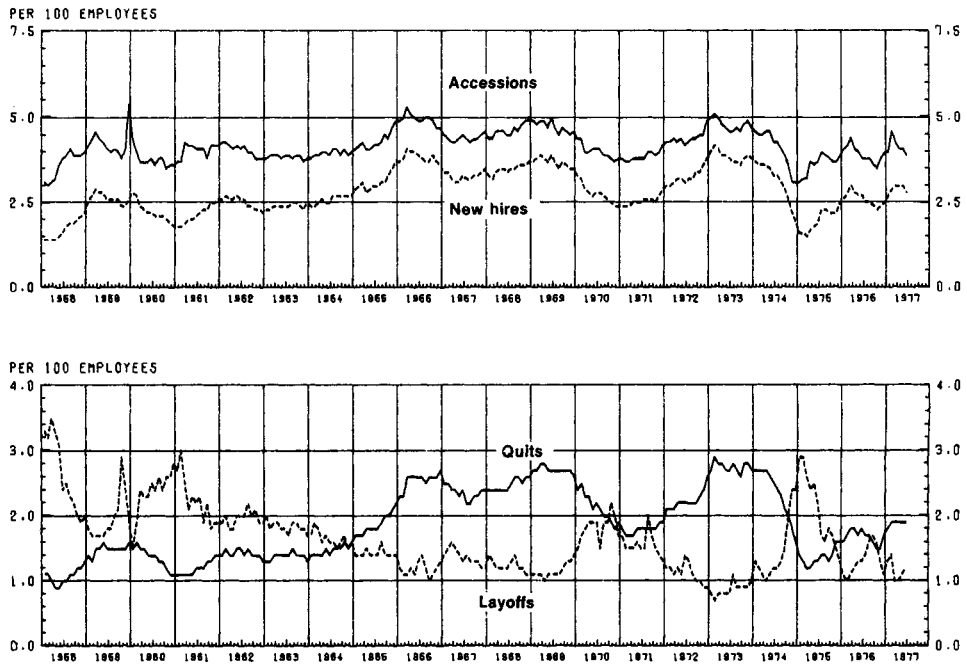


<sup>1</sup> Worker with three dependents.

NOTE: Data prior to 1964 are annual averages. Data for current month are preliminary.

SOURCE: Table C-8.

**Chart 17. Labor turnover rates in manufacturing**  
(Seasonally adjusted)



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

# HOUSEHOLD DATA HISTORICAL

## A-1. Employment status of the noninstitutional population 16 years and over, 1947 to date

[Numbers in thousands]

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>Annual averages</b>										
<b>TOTAL</b>										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 <sup>1</sup> .....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 <sup>1</sup> .....	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 <sup>1</sup> .....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1976:										
July.....	156,142	97,329	62.3	95,189	87,783	3,333	84,450	7,406	7.8	58,813
August.....	156,367	97,498	62.4	95,351	87,834	3,372	84,462	7,517	7.9	58,869
September.....	156,595	97,387	62.2	95,242	87,794	3,278	84,516	7,448	7.8	59,209
October.....	156,788	97,449	62.2	95,302	87,738	3,310	84,428	7,564	7.9	59,340
November.....	157,006	98,020	62.4	95,871	88,220	3,248	84,972	7,651	8.0	58,986
December.....	157,176	98,106	62.4	95,960	88,441	3,257	85,184	7,519	7.8	59,071
1977:										
January.....	157,381	97,649	62.0	95,516	88,558	3,090	85,468	6,958	7.3	59,732
February.....	157,584	98,282	62.4	96,145	88,962	3,090	85,872	7,183	7.5	59,302
March.....	157,782	98,677	62.5	96,539	89,475	3,116	86,359	7,064	7.3	59,104
April.....	157,986	98,892	62.6	96,760	90,023	3,260	86,763	6,737	7.0	59,024
May.....	158,228	99,286	62.7	97,158	90,408	3,386	87,022	6,750	6.9	58,943
June.....	158,456	99,770	63.0	97,641	90,679	3,338	87,341	6,962	7.1	58,686
July.....	158,682	99,440	62.7	97,305	90,561	3,213	87,348	6,744	6.9	59,242

<sup>1</sup> Not strictly comparable with prior years due to the introduction of population adjustments in these years. For an explanation, see "Historic Comparability" under Household Data section of Explanatory Notes.

<sup>2</sup> Because seasonality, by definition, does not exist in population figures, data for "total noninstitutional population" are not seasonally adjusted.

**HOUSEHOLD DATA  
HISTORICAL**

**A-2. Employment status of the noninstitutional population 16 years and over by sex, 1967 to date**

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force					Not in labor force	
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agri-culture	Nonagri-cultural industries	Number		Percent of labor force
<b>MALES</b>										
<b>Annual averages</b>										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 <sup>1</sup> .....	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 <sup>1</sup> .....	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1976:										
July.....	74,774	58,560	78.3	56,527	52,507	2,773	49,734	4,020	7.1	16,214
August.....	74,881	58,602	78.7	56,564	52,596	2,768	49,828	3,968	7.0	16,279
September.....	74,990	58,641	78.2	56,606	52,546	2,691	49,855	4,060	7.2	16,349
October.....	75,095	58,791	78.3	56,754	52,576	2,688	49,888	4,178	7.4	16,304
November.....	75,198	58,929	78.4	56,887	52,643	2,625	50,018	4,244	7.5	16,269
December.....	76,325	58,987	78.3	56,951	52,799	2,624	50,175	4,152	7.3	16,338
1977:										
January.....	75,422	58,654	77.8	56,632	52,918	2,548	50,370	3,714	6.6	16,768
February.....	75,519	58,976	78.1	56,950	53,046	2,546	50,500	3,904	6.9	16,543
March.....	75,610	59,007	78.0	56,982	53,270	2,544	50,726	3,712	6.5	16,603
April.....	75,706	59,060	78.0	57,041	53,575	2,626	50,949	3,466	6.1	16,646
May.....	75,823	59,346	78.3	57,331	53,722	2,724	50,998	3,609	6.3	16,477
June.....	75,932	59,581	78.5	57,567	53,987	2,698	51,289	3,580	6.2	16,351
July.....	76,041	59,457	78.2	57,438	53,900	2,624	51,276	3,538	6.2	16,584
<b>FEMALES</b>										
<b>Annual averages</b>										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 <sup>1</sup> .....	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 <sup>1</sup> .....	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1976:										
July.....	81,368	38,769	47.6	38,662	35,276	560	34,716	3,386	8.8	42,599
August.....	81,486	38,896	47.7	38,787	35,238	604	34,634	3,549	9.1	42,590
September.....	81,605	38,745	47.5	38,636	35,248	587	34,661	3,388	8.8	42,860
October.....	81,694	38,657	47.3	38,548	35,162	622	34,540	3,386	8.8	43,037
November.....	81,808	39,093	47.8	38,984	35,577	623	34,954	3,407	8.8	42,715
December.....	81,851	39,118	47.8	39,009	35,642	633	35,009	3,367	8.6	42,733
1977:										
January.....	81,959	38,995	47.6	38,884	35,640	542	35,098	3,244	8.3	42,964
February.....	82,065	39,306	47.9	39,195	35,916	544	35,372	3,279	8.4	42,759
March.....	82,172	39,671	48.3	39,557	36,205	572	35,633	3,352	8.5	42,501
April.....	82,280	39,832	48.4	39,719	36,448	634	35,814	3,271	8.2	42,448
May.....	82,405	39,940	48.5	39,827	36,686	662	36,024	3,141	7.9	42,465
June.....	82,524	40,190	48.7	40,074	36,692	640	36,052	3,382	8.4	42,334
July.....	82,642	39,983	48.4	39,867	36,661	589	36,072	3,206	8.0	42,659

<sup>1</sup> Not strictly comparable with prior years due to the introduction of population adjustments in these years. For an explanation, see "Historic Comparability" under Household Data section of Explanatory Notes.

<sup>2</sup> Because seasonality, by definition, does not exist in population figures, data for "total noninstitutional population" are not seasonally adjusted.

# HOUSEHOLD DATA

## A-3. Employment status of the noninstitutional population by sex, age, and race

[Numbers in thousands]

Sex, age, and race	July 1977										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>MALES</b>											
16 years and over .....	61,256	80.6	59,237	55,677	3,560	6.0	14,785	305	865	1,892	11,722
16 to 21 years .....	10,453	82.2	9,750	8,299	1,451	14.9	2,268	23	513	45	1,686
16 to 19 years .....	6,662	78.3	6,335	5,297	1,038	16.4	1,841	17	319	18	1,487
16 to 17 years .....	2,945	69.3	2,917	2,349	569	19.5	1,303	10	202	10	1,082
18 to 19 years .....	3,716	87.4	3,418	2,948	470	13.7	538	7	117	8	405
20 to 64 years .....	52,748	90.4	51,056	48,614	2,442	4.8	5,587	118	546	1,412	3,513
20 to 24 years .....	9,130	91.7	8,382	7,552	830	9.9	826	6	354	67	399
25 to 54 years .....	36,616	94.3	35,672	34,258	1,416	4.0	2,233	56	190	765	1,221
25 to 29 years .....	8,303	95.3	7,926	7,412	514	6.5	410	2	109	60	239
30 to 34 years .....	7,288	96.5	7,047	6,733	314	4.5	262	12	37	78	136
35 to 39 years .....	5,736	96.2	5,542	5,358	184	3.3	228	5	21	79	123
40 to 44 years .....	5,120	94.7	5,028	4,874	154	3.1	288	7	14	111	156
45 to 49 years .....	5,156	92.8	5,124	4,997	127	2.5	403	14	3	192	194
50 to 54 years .....	5,013	88.7	5,006	4,883	123	2.5	642	18	6	245	373
55 to 64 years .....	7,003	73.5	7,002	6,805	197	2.8	2,528	55	2	579	1,892
55 to 59 years .....	4,330	83.1	4,329	4,209	119	2.8	880	25	1	293	561
60 to 64 years .....	2,673	61.9	2,673	2,595	78	2.9	1,648	30	1	286	1,331
65 years and over .....	1,846	20.1	1,846	1,765	80	4.3	7,356	170	--	462	6,723
65 to 69 years .....	1,092	29.7	1,092	1,032	61	5.5	2,580	44	--	156	2,379
70 years and over .....	753	13.6	753	734	20	2.6	4,776	126	--	306	4,344
<b>White</b>											
16 years and over .....	54,562	81.2	52,903	50,199	2,705	5.1	12,624	240	645	1,507	10,233
16 to 21 years .....	9,123	84.0	8,551	7,507	1,044	12.2	1,735	21	385	33	1,297
16 to 19 years .....	5,816	80.4	5,547	4,804	743	13.4	1,422	17	240	14	1,152
16 to 17 years .....	2,571	71.4	2,547	2,132	415	16.3	1,030	10	155	6	858
18 to 19 years .....	3,245	89.2	3,000	2,672	328	10.9	392	6	84	7	294
20 to 64 years .....	47,065	91.1	45,676	43,788	1,887	4.1	4,586	96	405	1,122	2,963
20 to 24 years .....	8,000	92.9	7,405	6,786	618	8.4	607	4	256	54	293
25 to 54 years .....	32,650	94.9	31,858	30,750	1,108	3.5	1,756	45	147	582	982
25 to 34 years .....	13,824	96.3	13,310	12,673	637	4.8	525	14	116	106	290
35 to 44 years .....	9,643	95.9	9,400	9,131	269	2.9	409	9	22	150	228
45 to 54 years .....	9,183	91.8	9,148	8,945	202	2.2	822	22	9	327	363
55 to 64 years .....	6,414	74.3	6,413	6,253	160	2.5	2,223	47	2	487	1,688
55 to 59 years .....	3,954	84.0	3,953	3,858	95	2.4	755	20	1	246	488
60 to 64 years .....	2,460	62.6	2,460	2,394	66	2.7	1,468	26	1	240	1,200
65 years and over .....	1,681	20.3	1,681	1,606	75	4.5	6,616	127	--	371	6,118
<b>Black and other</b>											
16 years and over .....	6,694	75.6	6,333	5,478	855	13.5	2,161	66	220	385	1,490
16 to 21 years .....	1,330	71.4	1,199	792	407	34.0	533	3	129	12	389
16 to 19 years .....	846	66.8	788	493	296	37.5	420	1	79	5	335
16 to 17 years .....	374	57.8	370	217	154	41.5	274	--	46	4	224
18 to 19 years .....	471	76.3	418	276	142	33.9	146	1	33	1	111
20 to 64 years .....	5,684	85.0	5,381	4,826	555	10.3	1,001	22	141	288	550
20 to 24 years .....	1,129	83.8	977	766	211	21.6	219	2	98	13	106
25 to 54 years .....	3,965	89.2	3,814	3,508	306	8.0	478	11	43	183	240
25 to 34 years .....	1,767	92.3	1,663	1,473	190	11.4	147	--	30	32	84
35 to 44 years .....	1,213	91.8	1,169	1,100	69	5.9	108	2	13	41	51
45 to 54 years .....	986	81.6	982	935	47	4.8	223	9	--	110	104
55 to 64 years .....	589	65.9	589	552	37	6.2	305	9	--	93	204
55 to 59 years .....	376	75.0	376	351	25	6.5	125	5	--	47	73
60 to 64 years .....	213	54.2	213	201	12	5.6	180	4	--	46	130
65 years and over .....	164	18.2	164	159	5	2.9	740	43	--	92	605

HOUSEHOLD DATA

A-3. Employment status of the noninstitutional population by sex, age, and race—Continued

[Numbers in thousands]

Sex, age, and race	July 1977										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>FEMALES</b>											
16 years and over .....	40,193	48.6	40,077	36,696	3,381	8.4	42,449	34,434	1,050	982	5,983
16 to 21 years .....	8,077	64.8	8,029	6,758	1,270	15.8	4,389	1,839	689	14	1,846
16 to 19 years .....	5,177	62.2	5,159	4,240	919	17.8	3,150	1,034	478	9	1,629
16 to 17 years .....	2,202	53.5	2,201	1,776	425	19.3	1,916	443	233	2	1,238
18 to 19 years .....	2,975	70.7	2,957	2,463	494	16.7	1,234	591	246	7	390
20 to 64 years .....	34,043	55.6	33,945	31,527	2,418	7.1	27,191	23,761	567	430	2,433
20 to 24 years .....	6,783	68.2	6,719	5,967	752	11.2	3,157	2,365	355	24	413
25 to 54 years .....	23,043	56.7	23,010	21,525	1,485	6.5	17,590	15,794	207	234	1,355
25 to 29 years .....	5,394	60.8	5,370	4,894	476	8.9	3,484	3,131	106	18	230
30 to 34 years .....	4,258	54.9	4,252	3,962	290	6.8	3,493	3,141	54	21	277
35 to 39 years .....	3,621	57.6	3,619	3,407	212	5.9	2,666	2,405	24	26	212
40 to 44 years .....	3,339	58.4	3,338	3,131	207	6.2	2,375	2,165	6	44	159
45 to 49 years .....	3,304	56.3	3,303	3,152	151	4.6	2,566	2,306	8	44	209
50 to 54 years .....	3,128	51.0	3,128	2,979	148	4.7	3,005	2,647	10	80	268
55 to 64 years .....	4,216	39.5	4,216	4,034	182	4.3	6,445	5,601	6	173	665
55 to 59 years .....	2,653	46.3	2,653	2,546	107	4.0	3,072	2,714	3	77	278
60 to 64 years .....	1,563	31.7	1,563	1,488	75	4.8	3,372	2,887	2	95	387
65 years and over .....	973	7.4	973	929	44	4.5	12,108	9,640	4	543	1,922
65 to 69 years .....	628	13.6	628	601	27	4.3	4,008	3,349	3	85	571
70 years and over .....	345	4.1	345	328	17	5.0	8,101	6,291	1	459	1,350
<b>White</b>											
16 years and over .....	34,807	48.2	34,713	32,132	2,580	7.4	37,458	30,821	770	777	5,089
16 to 21 years .....	7,097	67.3	7,057	6,136	922	13.1	3,449	1,492	485	10	1,462
16 to 19 years .....	4,563	64.9	4,547	3,869	679	14.9	2,471	836	337	4	1,295
16 to 17 years .....	1,953	56.3	1,953	1,627	326	16.7	1,515	354	169	1	990
18 to 19 years .....	2,610	73.2	2,595	2,242	353	13.6	957	481	168	3	304
20 to 64 years .....	29,374	55.1	29,296	27,435	1,860	6.3	23,974	21,125	430	336	2,085
20 to 24 years .....	5,871	69.4	5,820	5,278	542	9.3	2,583	1,979	266	19	318
25 to 54 years .....	19,720	55.9	19,692	18,530	1,162	5.9	15,568	14,042	159	172	1,194
25 to 34 years .....	8,148	56.9	8,125	7,538	586	7.2	6,182	5,584	123	32	443
35 to 44 years .....	5,940	57.3	5,937	5,616	322	5.4	4,428	4,041	24	49	314
45 to 54 years .....	5,631	53.2	5,630	5,376	255	4.5	4,957	4,417	13	91	437
55 to 64 years .....	3,783	39.4	3,783	3,627	156	4.1	5,824	5,103	4	144	572
55 to 59 years .....	2,392	46.5	2,392	2,299	93	3.9	2,755	2,454	2	64	236
60 to 64 years .....	1,391	31.2	1,391	1,328	63	4.5	3,068	2,649	2	81	336
65 years and over .....	869	7.3	869	828	42	4.8	11,012	8,861	3	437	1,710
<b>Black and other</b>											
16 years and over .....	5,386	51.9	5,364	4,563	801	14.9	4,992	3,613	280	205	894
16 to 21 years .....	980	51.0	971	623	349	35.9	940	347	204	5	384
16 to 19 years .....	614	47.5	611	371	240	39.3	679	198	142	5	334
16 to 17 years .....	249	38.3	249	150	99	39.9	402	88	64	1	248
18 to 19 years .....	365	56.8	362	221	141	38.9	277	110	77	4	86
20 to 64 years .....	4,668	59.2	4,649	4,091	558	12.0	3,216	2,636	138	94	349
20 to 24 years .....	912	61.4	899	689	210	23.4	574	385	88	4	95
25 to 54 years .....	3,324	62.2	3,317	2,996	322	9.7	2,022	1,752	47	61	161
25 to 34 years .....	1,504	65.4	1,498	1,318	180	12.0	795	688	37	7	63
35 to 44 years .....	1,020	62.4	1,019	922	97	9.6	613	529	6	21	57
45 to 54 years .....	801	56.6	801	756	45	5.6	614	535	5	33	40
55 to 64 years .....	433	41.1	433	407	26	6.0	621	498	2	29	93
55 to 59 years .....	261	45.1	261	246	15	5.6	317	260	2	14	42
60 to 64 years .....	172	36.1	172	160	11	6.7	304	238	--	15	51
65 years and over .....	104	8.7	104	102	2	2.1	1,097	779	--	106	211



# HOUSEHOLD DATA

## A-4. Labor force by sex, age, and race

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
<b>MALES</b>								
16 years and over	60,311	61,256	80.7	80.6	58,278	59,237	80.1	80.0
16 to 19 years	6,551	6,662	77.1	78.3	6,210	6,335	76.2	77.5
16 to 17 years	2,905	2,945	68.7	69.3	2,877	2,917	68.5	69.1
18 to 19 years	3,646	3,716	85.4	87.4	3,333	3,418	84.3	86.4
20 to 24 years	8,944	9,130	91.6	91.7	8,189	8,382	90.9	91.0
25 to 54 years	36,078	36,616	94.5	94.3	35,141	35,672	94.3	94.1
25 to 34 years	15,061	15,591	95.8	95.9	14,453	14,973	95.6	95.7
35 to 44 years	10,640	10,856	95.4	95.5	10,349	10,569	95.3	95.3
45 to 54 years	10,377	10,169	91.7	90.7	10,338	10,130	91.7	90.7
55 to 64 years	6,941	7,003	74.1	73.5	6,939	7,002	74.1	73.5
55 to 59 years	4,219	4,330	83.2	83.1	4,218	4,329	83.2	83.1
60 to 64 years	2,721	2,673	63.4	61.9	2,721	2,673	63.4	61.9
65 years and over	1,799	1,846	20.1	20.1	1,799	1,846	20.1	20.1
<b>White</b>								
16 years and over	53,847	54,562	81.4	81.2	52,154	52,904	80.9	80.7
16 to 19 years	5,781	5,816	79.9	80.4	5,492	5,547	79.0	79.6
16 to 17 years	2,535	2,571	70.7	71.4	2,510	2,547	70.5	71.2
18 to 19 years	3,246	3,245	88.8	89.2	2,982	3,000	88.0	88.4
20 to 24 years	7,841	8,000	92.8	92.9	7,234	7,405	92.2	92.4
25 to 54 years	32,215	32,650	95.1	94.9	31,419	31,858	95.0	94.8
25 to 34 years	13,381	13,824	96.3	96.3	12,868	13,310	96.1	96.2
35 to 44 years	9,460	9,643	95.9	95.9	9,212	9,400	95.8	95.8
45 to 54 years	9,374	9,183	92.7	91.8	9,339	9,148	92.6	91.8
55 to 64 years	6,400	6,414	75.4	74.3	6,398	6,413	75.4	74.3
55 to 59 years	3,877	3,954	84.5	84.0	3,876	3,953	84.5	84.0
60 to 64 years	2,522	2,460	64.7	62.6	2,522	2,460	64.7	62.6
65 years and over	1,610	1,681	19.9	20.3	1,610	1,681	19.9	20.3
<b>Black and other</b>								
16 years and over	6,465	6,694	74.9	75.6	6,124	6,333	73.9	74.6
16 to 19 years	770	846	61.2	66.8	718	788	59.6	65.3
16 to 17 years	370	374	57.4	57.8	367	370	57.2	57.5
18 to 19 years	400	471	65.2	76.3	351	418	62.2	74.1
20 to 24 years	1,102	1,129	84.3	83.8	955	977	82.4	81.7
25 to 54 years	3,863	3,965	89.4	89.2	3,721	3,814	89.1	88.9
25 to 34 years	1,680	1,767	91.7	92.3	1,586	1,663	91.3	91.9
35 to 44 years	1,179	1,213	91.5	91.8	1,137	1,169	91.2	91.5
45 to 54 years	1,003	986	83.7	81.6	999	982	83.6	81.5
55 to 64 years	541	589	61.9	65.9	541	589	61.9	65.9
55 to 59 years	342	376	71.4	75.0	342	376	71.4	75.0
60 to 64 years	199	213	50.3	54.2	199	213	50.3	54.2
65 years and over	189	164	21.6	18.2	189	164	21.6	18.2

## A-4. Labor force by sex, age, and race—Continued

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
<b>FEMALES</b>								
16 years and over . . . . .	39,014	40,193	47.9	48.6	38,907	40,077	47.9	48.6
16 to 19 years . . . . .	5,157	5,177	62.0	62.2	5,138	5,159	61.9	62.1
16 to 17 years . . . . .	2,228	2,202	54.3	53.5	2,227	2,201	54.3	53.5
18 to 19 years . . . . .	2,930	2,975	69.6	70.7	2,910	2,957	69.4	70.6
20 to 24 years . . . . .	6,588	6,783	67.7	68.2	6,529	6,719	67.5	68.0
25 to 54 years . . . . .	22,038	23,043	55.1	56.7	22,010	23,010	55.1	56.7
25 to 34 years . . . . .	8,989	9,652	55.9	58.0	8,965	9,622	55.8	58.0
35 to 44 years . . . . .	6,507	6,960	55.3	58.0	6,504	6,956	55.3	58.0
45 to 54 years . . . . .	6,542	6,432	53.9	53.6	6,541	6,431	53.9	53.6
55 to 64 years . . . . .	4,218	4,216	40.2	39.5	4,217	4,216	40.2	39.5
55 to 59 years . . . . .	2,664	2,653	47.7	46.3	2,664	2,653	47.7	46.3
60 to 64 years . . . . .	1,553	1,563	31.6	31.7	1,553	1,563	31.6	31.7
65 years and over . . . . .	1,013	973	7.9	7.4	1,013	973	7.9	7.4
<b>White</b>								
16 years and over . . . . .	33,784	34,807	47.4	48.2	33,696	34,713	47.3	48.1
16 to 19 years . . . . .	4,556	4,563	64.7	64.9	4,539	4,547	64.7	64.8
16 to 17 years . . . . .	1,947	1,953	56.3	56.3	1,947	1,953	56.3	56.3
18 to 19 years . . . . .	2,609	2,610	72.9	73.2	2,593	2,595	72.8	73.1
20 to 24 years . . . . .	5,678	5,871	68.4	69.4	5,630	5,820	68.3	69.3
25 to 54 years . . . . .	18,849	19,720	54.2	55.9	18,826	19,692	54.1	55.8
25 to 34 years . . . . .	7,563	8,148	54.4	56.9	7,543	8,125	54.4	56.8
35 to 44 years . . . . .	5,542	5,940	54.5	57.3	5,539	5,937	54.5	57.3
45 to 54 years . . . . .	5,744	5,631	53.5	53.2	5,743	5,630	53.5	53.2
55 to 64 years . . . . .	3,799	3,783	40.1	39.4	3,799	3,783	40.1	39.4
55 to 59 years . . . . .	2,404	2,392	47.8	46.5	2,404	2,392	47.8	46.5
60 to 64 years . . . . .	1,395	1,391	31.4	31.2	1,395	1,391	31.4	31.2
65 years and over . . . . .	901	869	7.7	7.3	901	869	7.7	7.3
<b>Black and other</b>								
16 years and over . . . . .	5,230	5,386	51.9	51.9	5,211	5,364	51.8	51.8
16 to 19 years . . . . .	601	614	47.0	47.5	598	611	46.9	47.4
16 to 17 years . . . . .	281	249	43.5	38.3	281	249	43.5	38.3
18 to 19 years . . . . .	320	365	50.6	56.8	318	362	50.4	56.6
20 to 24 years . . . . .	910	912	63.4	61.4	899	899	63.1	61.1
25 to 54 years . . . . .	3,189	3,324	61.5	62.2	3,184	3,317	61.5	62.1
25 to 34 years . . . . .	1,426	1,504	64.9	65.4	1,422	1,498	64.8	65.3
35 to 44 years . . . . .	965	1,020	60.8	62.4	965	1,019	60.8	62.4
45 to 54 years . . . . .	797	801	57.1	56.6	797	801	57.0	56.6
55 to 64 years . . . . .	419	433	40.7	41.1	419	433	40.7	41.1
55 to 59 years . . . . .	260	261	46.8	45.1	260	261	46.8	45.1
60 to 64 years . . . . .	158	172	33.5	36.1	158	172	33.5	36.1
65 years and over . . . . .	112	104	9.6	8.7	112	104	9.6	8.7

# HOUSEHOLD DATA

## A-5. Employment status of black workers by sex and age

[Numbers in thousands]

Sex and age	July 1977						Not in labor force	
	Civilian labor force					Percent of labor force		
	Total	Employed			Unemployed			
		Total	Agriculture	Nonagricultural industries	Number			
<b>Total</b>								
16 years and over .....	10,077	8,569	230	8,339	1,508	15.0	6,274	
16 to 19 years .....	1,240	734	39	695	507	40.8	994	
16 to 17 years .....	551	310	22	288	241	43.7	624	
18 to 19 years .....	689	423	17	407	266	38.6	370	
20 to 24 years .....	1,626	1,231	36	1,195	395	24.3	684	
25 to 54 years .....	6,056	5,506	107	5,399	551	9.1	2,122	
25 to 34 years .....	2,665	2,332	40	2,292	333	12.5	753	
35 to 44 years .....	1,872	1,728	30	1,698	144	7.7	614	
45 to 54 years .....	1,519	1,446	37	1,409	74	4.8	755	
55 to 64 years .....	907	857	31	826	50	5.5	842	
55 to 59 years .....	561	532	12	520	28	5.1	399	
60 to 64 years .....	346	324	19	306	21	6.2	443	
65 years and over .....	248	241	18	224	7	2.6	1,633	
<b>Males</b>								
16 years and over .....	5,429	4,656	183	4,473	774	14.3	1,925	
16 to 19 years .....	712	437	32	405	276	38.7	380	
16 to 17 years .....	340	196	15	180	145	42.5	251	
18 to 19 years .....	372	241	17	225	131	35.2	129	
20 to 24 years .....	841	645	25	620	196	23.3	180	
25 to 54 years .....	3,220	2,949	85	2,864	270	8.4	435	
25 to 34 years .....	1,384	1,209	31	1,178	175	12.6	126	
35 to 44 years .....	990	930	25	905	60	6.1	98	
45 to 54 years .....	845	810	29	782	35	4.1	211	
55 to 64 years .....	507	479	26	453	28	5.5	292	
55 to 59 years .....	316	301	10	291	16	5.0	119	
60 to 64 years .....	191	179	16	163	12	6.2	172	
65 years and over .....	150	145	15	130	4	2.8	640	
<b>Females</b>								
16 years and over .....	4,648	3,913	47	3,866	735	15.8	4,349	
16 to 19 years .....	528	297	7	290	231	43.7	614	
16 to 17 years .....	211	115	7	108	96	45.5	373	
18 to 19 years .....	317	182	--	182	135	42.5	241	
20 to 24 years .....	785	586	11	576	199	25.3	504	
25 to 54 years .....	2,837	2,556	22	2,534	280	9.9	1,686	
25 to 34 years .....	1,281	1,123	9	1,114	158	12.4	627	
35 to 44 years .....	882	798	5	793	84	9.5	515	
45 to 54 years .....	674	635	8	627	39	5.7	544	
55 to 64 years .....	400	378	5	373	22	5.5	550	
55 to 59 years .....	244	232	2	230	13	5.1	280	
60 to 64 years .....	155	146	3	143	9	6.1	270	
65 years and over .....	98	96	3	93	2	2.4	994	

NOTE: According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.

**A-6. Employment status of the noninstitutional population by sex, age, and race**

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
	<b>TOTAL</b>							
Total noninstitutional population	156,142	158,682	66,279	67,537	73,053	74,315	16,811	16,830
Total labor force	99,325	101,448	53,760	54,594	33,857	35,016	11,708	11,839
Percent of population	63.6	63.9	81.1	80.8	46.3	47.1	69.6	70.3
Civilian labor force	97,185	99,314	52,068	52,902	33,769	34,918	11,348	11,494
Employed	89,608	92,372	49,143	50,379	31,126	32,456	9,339	9,537
Agriculture	3,931	3,790	2,596	2,464	632	683	704	643
Nonagricultural industries	85,677	88,582	46,547	47,916	30,494	31,772	8,635	8,894
Unemployed	7,577	6,941	2,925	2,522	2,643	2,462	2,008	1,957
Percent of labor force	7.8	7.0	5.6	4.8	7.8	7.1	17.7	17.0
Not in labor force	56,817	57,234	12,518	12,943	39,196	39,299	5,102	4,992
<b>White</b>								
Total noninstitutional population	137,424	139,450	58,904	59,948	64,244	65,230	14,275	14,273
Total labor force	87,631	89,369	48,066	48,746	29,228	30,243	10,337	10,379
Percent of population	63.8	64.1	81.6	81.3	45.5	46.4	72.4	72.7
Civilian labor force	85,850	87,616	46,661	47,357	29,157	30,165	10,032	10,094
Employed	79,856	82,331	44,310	45,394	27,082	28,263	8,465	8,673
Agriculture	3,585	3,510	2,375	2,284	580	632	630	594
Nonagricultural industries	76,271	78,820	41,935	43,110	26,502	27,631	7,835	8,079
Unemployed	5,993	5,285	2,352	1,962	2,075	1,902	1,567	1,421
Percent of labor force	7.0	6.0	5.0	4.1	7.1	6.3	15.6	14.1
Not in labor force	49,793	50,082	10,839	11,202	35,016	34,986	3,938	3,893
<b>Black and other</b>								
Total noninstitutional population	18,719	19,232	7,374	7,589	8,808	9,085	2,536	2,558
Total labor force	11,695	12,080	5,695	5,848	4,629	4,772	1,371	1,459
Percent of population	62.5	62.8	77.2	77.1	52.5	52.5	54.1	57.1
Civilian labor force	11,335	11,697	5,406	5,545	4,613	4,753	1,316	1,400
Employed	9,752	10,042	4,833	4,985	4,044	4,193	874	864
Agriculture	346	280	221	179	52	51	74	49
Nonagricultural industries	9,405	9,761	4,612	4,806	3,992	4,141	801	814
Unemployed	1,584	1,656	573	560	569	560	442	536
Percent of labor force	14.0	14.2	10.6	10.1	12.3	11.8	33.6	38.3
Not in labor force	7,024	7,152	1,680	1,741	4,180	4,313	1,164	1,098

**A-7. Employment status of the noninstitutional population 16-21 years of age by race and sex**

(Numbers in thousands)

Employment status	July 1977								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,186	12,720	12,466	21,404	10,858	10,546	3,782	1,862	1,920
Total labor force	18,530	10,453	8,077	16,220	9,123	7,097	2,309	1,330	980
Percent of population	73.6	82.2	64.8	75.8	84.0	67.3	61.1	71.4	51.0
Civilian labor force	17,779	9,750	8,029	15,608	8,551	7,057	2,171	1,199	971
Employed	15,057	8,299	6,758	13,643	7,507	6,136	1,415	792	623
Agriculture	835	665	170	775	618	158	60	47	12
Nonagricultural industries	14,223	7,634	6,589	12,867	6,889	5,978	1,355	745	610
Unemployed	2,721	1,451	1,270	1,965	1,044	922	756	407	349
Percent of labor force	15.3	14.9	15.8	12.6	12.2	13.1	34.8	34.0	35.9
Looking for full-time work	2,073	1,149	924	1,474	815	659	599	334	265
Looking for part-time work	649	302	346	492	229	262	157	73	84
Not in labor force	6,656	2,268	4,389	5,184	1,735	3,449	1,473	533	940
<b>MAJOR ACTIVITY: GOING TO SCHOOL</b>									
Civilian labor force	358	160	198	280	120	160	78	40	37
Employed	243	100	143	195	81	114	49	19	29
Agriculture	11	8	3	7	4	3	3	3	--
Nonagricultural industries	232	92	140	187	77	110	45	16	30
Unemployed	114	60	54	85	39	46	29	21	8
Percent of labor force	32.0	37.6	27.4	30.5	32.6	28.9	37.3	(1)	(1)
Looking for full-time work	29	17	12	18	6	12	11	11	--
Looking for part-time work	85	43	42	67	33	34	18	10	8
Not in labor force	1,202	513	689	870	385	485	332	129	204
<b>MAJOR ACTIVITY: OTHER</b>									
Civilian labor force	17,421	9,590	7,831	15,328	8,431	6,897	2,093	1,159	934
Employed	14,814	8,199	6,615	13,448	7,426	6,022	1,366	773	593
Agriculture	824	657	167	768	613	154	56	44	12
Nonagricultural industries	13,990	7,542	6,449	12,680	6,813	5,868	1,310	729	581
Unemployed	2,607	1,391	1,216	1,880	1,005	875	727	386	341
Percent of labor force	15.0	14.5	15.5	12.3	11.9	12.7	34.7	33.3	36.5
Looking for full-time work	2,044	1,132	912	1,455	808	647	588	323	265
Looking for part-time work	563	259	304	425	196	228	139	63	76
Not in labor force	5,454	1,754	3,700	4,314	1,350	2,964	1,141	404	736

<sup>1</sup> Percent not shown where base is less than 75,000.

# HOUSEHOLD DATA

## A-8. Full- and part-time status of the civilian labor force by sex, age, and race

[Numbers in thousands]

Race, sex, and age	July 1977								
	Full-time labor force				Part-time labor force				
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time <sup>1</sup>	Unemployed (looking for part-time work)	
		Full-time schedules <sup>1</sup>	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
<b>TOTAL</b>									
Both sexes, 16 years and over	87,268	77,080	4,391	5,797	6.6	12,045	10,901	1,144	9.5
16 to 21 years	14,137	10,045	2,020	2,073	14.7	3,642	2,993	649	17.8
16 to 19 years	8,530	5,510	1,631	1,389	16.3	2,964	2,396	568	19.2
16 to 17 years	3,196	1,701	910	585	18.3	1,923	1,514	409	21.2
18 to 19 years	5,334	3,809	721	804	15.1	1,041	882	160	15.3
20 years and over	78,738	71,570	2,760	4,408	5.6	9,082	8,505	576	6.3
20 to 24 years	13,661	11,449	782	1,430	10.5	1,440	1,288	152	10.6
25 years and over	65,077	60,121	1,978	2,978	4.6	7,642	7,217	424	5.5
25 to 54 years	53,507	49,386	1,530	2,591	4.8	5,175	4,866	309	6.0
55 years and over	11,570	10,735	447	387	3.3	2,466	2,351	115	4.7
<b>Males, 16 years and over</b>	55,598	50,157	2,309	3,132	5.6	3,639	3,210	428	11.8
16 to 21 years	8,153	5,918	1,086	1,149	14.1	1,597	1,295	302	18.9
16 to 19 years	5,034	3,369	890	775	15.4	1,301	1,038	264	20.3
20 years and over	50,564	46,788	1,419	2,357	4.7	2,337	2,173	165	7.0
20 to 24 years	7,824	6,649	399	776	9.9	557	503	54	9.7
25 years and over	42,740	40,139	1,020	1,581	3.7	1,780	1,670	111	6.2
25 to 54 years	34,945	32,821	770	1,354	3.9	727	665	62	8.5
55 years and over	7,795	7,318	249	228	2.9	1,053	1,003	48	4.6
<b>Females, 16 years and over</b>	31,670	26,923	2,082	2,665	8.4	8,407	7,691	716	8.5
16 to 21 years	5,984	4,127	933	924	15.4	2,044	1,698	346	16.9
16 to 19 years	3,496	2,141	741	614	17.6	1,663	1,358	305	18.3
20 years and over	28,174	24,782	1,341	2,051	7.3	6,744	6,333	412	6.1
20 to 24 years	5,837	4,800	383	654	11.2	882	784	98	11.1
25 years and over	22,337	19,982	958	1,397	6.3	5,862	5,549	314	5.4
25 to 54 years	18,562	16,564	760	1,238	6.7	4,448	4,200	247	5.6
55 years and over	3,775	3,417	198	159	4.2	1,415	1,348	67	4.7
<b>White</b>									
<b>Males, 16 years and over</b>	49,706	45,390	1,942	2,373	4.8	3,198	2,866	332	10.4
16 to 21 years	7,181	5,446	920	815	11.3	1,370	1,141	229	16.7
16 to 19 years	4,422	3,128	752	541	12.2	1,125	924	201	17.9
20 years and over	45,284	42,262	1,190	1,832	4.0	2,073	1,942	130	6.3
20 to 24 years	6,921	5,999	348	574	8.3	484	440	44	9.1
25 years and over	38,363	36,263	842	1,258	3.3	1,589	1,502	86	5.4
25 to 54 years	31,222	29,538	620	1,063	3.4	636	591	45	7.1
55 years and over	7,141	6,725	222	194	2.7	952	911	41	4.3
<b>Females, 16 years and over</b>	27,173	23,428	1,744	2,001	7.4	7,540	6,960	579	7.7
16 to 21 years	5,255	3,769	828	659	12.5	1,802	1,540	262	14.6
16 to 19 years	3,072	1,968	659	446	14.5	1,475	1,242	233	15.8
20 years and over	24,101	21,460	1,085	1,555	6.5	6,064	5,718	347	5.7
20 to 24 years	5,024	4,231	329	463	9.2	796	718	78	9.8
25 years and over	19,077	17,229	756	1,092	5.7	5,268	5,000	269	5.1
25 to 54 years	15,662	14,122	591	949	6.1	4,031	3,817	214	5.3
55 years and over	3,416	3,106	166	143	4.2	1,238	1,182	54	4.4
<b>Black and other</b>									
<b>Males, 16 years and over</b>	5,892	4,767	367	759	12.9	441	344	97	21.9
16 to 21 years	972	472	166	334	34.4	227	154	73	32.1
16 to 19 years	612	241	138	233	38.1	176	114	63	35.5
20 years and over	5,280	4,527	228	525	9.9	265	231	34	12.9
20 to 24 years	903	651	52	201	22.3	74	64	10	(2)
25 years and over	4,377	3,876	176	324	7.4	191	167	24	12.6
25 to 54 years	3,723	3,284	150	291	7.8	91	75	17	18.7
55 years and over	653	592	27	33	5.1	100	92	7	7.0
<b>Females, 16 years and over</b>	4,497	3,496	337	664	14.8	867	730	137	15.8
16 to 21 years	729	358	106	265	36.3	242	158	84	34.6
16 to 19 years	424	174	82	168	39.7	187	116	72	38.3
20 years and over	4,073	3,322	256	496	12.2	680	615	65	9.6
20 to 24 years	813	569	54	191	23.4	86	66	20	22.8
25 years and over	3,260	2,753	202	305	9.4	594	549	45	7.6
25 to 54 years	2,901	2,442	170	289	10.0	417	383	33	7.9
55 years and over	360	311	32	17	4.7	177	165	12	6.8

<sup>1</sup> Employed persons with a job but not at work are distributed proportionately among the full- and part-time employed categories.

<sup>2</sup> Percent not shown where base is less than 75,000.

## A-9. Unemployed persons by sex and age

Age	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
Total, 16 years and over .....	4,014	3,560	6.9	6.0	3,563	3,381	9.2	8.4
16 to 19 years .....	1,089	1,038	17.5	16.4	920	919	17.9	17.8
16 to 17 years .....	575	569	20.0	19.5	453	425	20.3	19.3
18 to 19 years .....	514	470	15.4	13.7	467	494	16.0	16.7
20 years and over .....	2,925	2,522	5.6	4.8	2,643	2,462	7.8	7.1
20 to 24 years .....	917	830	11.2	9.9	739	752	11.3	11.2
25 years and over .....	2,007	1,692	4.6	3.8	1,904	1,711	7.0	6.1
25 to 34 years .....	881	828	6.1	5.5	831	766	9.3	8.0
35 to 44 years .....	421	338	4.1	3.2	414	419	6.4	6.0
45 to 54 years .....	382	250	3.7	2.5	357	300	5.5	4.7
55 to 64 years .....	252	197	3.6	2.8	229	182	5.4	4.3
55 to 59 years .....	157	119	3.7	2.8	155	107	5.8	4.0
60 to 64 years .....	95	78	3.5	2.9	74	75	4.8	4.8
65 years and over .....	71	80	4.0	4.3	73	44	7.2	4.5
Household heads, 16 years and over .....	2,004	1,574	4.4	3.4	669	619	7.9	6.9
16 to 24 years .....	349	265	8.1	6.2	115	139	9.8	10.7
25 to 54 years .....	1,342	1,036	4.1	3.2	416	380	8.1	6.8
55 years and over .....	313	274	3.7	3.2	136	98	6.3	4.7

## A-10. Unemployed persons by marital status, sex, age, and race

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
Total, 16 years and over .....	4,014	3,560	6.9	6.0	3,563	3,381	9.2	8.4
Married, spouse present .....	1,559	1,222	3.9	3.1	1,622	1,458	7.6	6.8
Widowed, divorced, or separated .....	408	321	10.5	7.7	609	505	8.8	7.0
Single (never married) .....	2,047	2,017	14.1	13.2	1,333	1,418	12.4	12.6
White, 16 years and over .....	3,223	2,705	6.2	5.1	2,770	2,580	8.2	7.4
Married, spouse present .....	1,315	1,001	3.6	2.8	1,373	1,233	7.2	6.4
Widowed, divorced, or separated .....	305	243	9.6	7.1	446	375	8.0	6.4
Single (never married) .....	1,603	1,461	12.7	11.0	952	972	10.4	10.1
Black and other, 16 years and over .....	791	855	12.9	13.5	793	801	15.2	14.9
Married, spouse present .....	244	221	7.0	6.2	249	224	11.0	9.7
Widowed, divorced, or separated .....	103	78	14.1	10.6	163	130	12.1	9.3
Single (never married) .....	443	556	23.4	27.4	381	447	23.9	26.9
Total, 20 to 64 years of age .....	2,854	2,442	5.7	4.8	2,570	2,418	7.8	7.1
Married, spouse present .....	1,476	1,130	3.9	3.0	1,512	1,335	7.4	6.4
Widowed, divorced, or separated .....	385	318	10.6	8.1	553	476	8.8	7.2
Single (never married) .....	993	994	11.7	10.9	506	608	8.4	9.4
White, 20 to 64 years of age .....	2,293	1,887	5.1	4.1	2,006	1,860	7.1	6.3
Married, spouse present .....	1,242	916	3.6	3.6	1,279	1,117	7.0	6.0
Widowed, divorced, or separated .....	286	240	9.7	7.5	392	355	7.9	6.6
Single (never married) .....	765	732	10.4	9.3	335	390	6.7	7.3
Black and other, 20 to 64 years of age .....	560	555	10.7	10.3	565	558	12.6	12.0
Married, spouse present .....	233	214	7.0	6.2	233	218	10.6	9.6
Widowed, divorced, or separated .....	100	78	14.8	11.1	162	121	12.8	9.3
Single (never married) .....	228	262	19.2	21.0	171	218	16.5	20.3

# HOUSEHOLD DATA

## A-11. Unemployed persons by occupation of last job and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
Total	7,577	6,941	7.8	7.0	6.9	6.0	9.2	8.4
White-collar workers	2,246	1,969	4.9	4.2	3.2	2.8	6.6	5.5
Professional and technical	495	460	3.7	3.4	2.6	2.3	5.4	4.8
Managers and administrators, except farm	329	262	3.4	2.6	2.7	2.0	6.1	4.7
Sales workers	301	317	5.2	5.2	3.4	4.0	7.6	6.8
Clerical workers	1,121	930	6.7	5.5	5.6	4.6	6.9	5.7
Blue-collar workers	2,884	2,481	8.6	7.3	8.0	6.5	11.2	11.0
Craft and kindred workers	772	618	6.1	4.7	6.1	4.5	5.9	8.6
Carpenters and other construction craft	375	305	9.4	7.2	9.5	7.0	--	(1)
All other	397	313	4.6	3.6	4.5	3.3	6.3	7.5
Operatives, except transport	1,194	1,090	10.3	9.4	9.3	8.0	12.0	11.4
Transport equipment operatives	261	246	7.3	6.6	7.3	6.4	6.7	10.6
Nonfarm laborers	657	528	11.3	9.0	11.2	8.9	12.8	10.1
Construction laborers	207	120	18.3	10.5	18.4	10.2	(1)	(1)
All other	450	408	9.6	8.7	9.3	8.6	12.6	9.5
Service workers	1,186	1,075	8.7	7.8	8.5	7.1	8.9	8.2
Private household	69	66	5.9	5.3	(1)	(1)	6.0	5.5
All other	1,116	1,009	9.0	8.0	8.5	7.2	9.3	8.7
Farm workers	128	108	3.6	3.2	3.3	3.0	5.1	3.9
No previous work experience	1,133	1,309	--	--	--	--	--	--
16 to 19 years	943	1,049	--	--	--	--	--	--
20 to 24 years	114	171	--	--	--	--	--	--
25 years and over	77	88	--	--	--	--	--	--

<sup>1</sup> Percent not shown where base is less than 75,000.

## A-12. Unemployed persons by industry of last job and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
Total	100.0	100.0	7.8	7.0	6.9	6.0	9.2	8.4
Nonagricultural private wage and salary workers	70.5	67.5	7.6	6.5	7.0	5.8	8.6	7.6
Mining	.5	.5	4.9	4.2	5.5	3.5	--	11.1
Construction	8.2	6.7	13.3	9.4	13.4	9.3	12.2	11.5
Manufacturing	21.0	19.8	7.4	6.3	6.1	5.1	10.3	8.9
Durable goods	11.8	10.6	7.0	5.7	6.3	5.3	9.2	7.2
Lumber and wood products	.6	.9	6.0	8.6	5.4	9.0	9.6	5.5
Furniture and fixtures	.8	.7	11.0	8.8	12.4	7.2	7.6	12.4
Stone, clay, and glass products	.4	.7	4.6	6.6	4.3	5.3	6.0	11.2
Primary metal industries	1.3	.9	7.0	4.6	6.6	4.8	10.9	3.7
Fabricated metal products	1.6	1.3	7.6	5.8	8.0	5.4	6.4	7.2
Machinery, except electrical equipment	1.8	1.6	5.8	4.5	5.6	4.2	7.0	5.4
Electrical equipment	1.8	1.6	6.4	5.2	3.3	3.8	10.5	7.2
Transportation equipment	2.1	1.9	7.6	5.8	7.4	5.8	8.6	5.9
Automobiles	1.1	1.0	7.9	5.5	8.1	5.6	6.9	4.5
Other transportation equipment	1.0	.9	7.3	6.4	6.6	6.1	10.8	8.3
Instruments and related products	.4	.3	5.7	4.4	2.7	4.9	9.6	3.9
Other durable goods industries	1.0	.7	10.4	8.0	8.7	5.6	13.3	11.3
Nondurable goods	9.2	9.2	8.0	7.1	5.8	4.9	11.2	10.5
Food and kindred products	2.2	2.9	8.9	9.9	7.6	6.3	11.9	18.2
Textile mill products	1.0	1.2	7.7	8.3	6.2	8.3	9.4	8.3
Apparel and other textile products	2.1	1.6	11.5	8.4	6.3	5.9	12.8	9.0
Paper and allied products	.6	.6	6.3	5.7	6.3	4.8	6.4	8.9
Printing and publishing	1.2	1.0	6.6	5.3	5.3	4.5	9.0	6.5
Chemicals and allied products	.8	.6	4.9	3.6	3.6	1.8	8.3	9.2
Rubber and plastics products	.7	.7	8.1	6.6	5.0	4.2	13.8	11.3
Other nondurable goods industries	.7	.6	8.5	6.8	4.6	3.6	14.2	11.5
Transportation and public utilities	3.0	3.2	4.7	4.3	4.8	3.7	4.6	6.4
Railroads and railway express	.3	.1	3.8	1.0	3.9	.9	(1)	(1)
Other transportation	2.1	2.2	7.2	6.3	7.5	5.3	5.8	10.5
Communication and other public utilities	.6	.9	2.2	2.9	1.2	2.4	4.1	3.9
Wholesale and retail trade	20.8	20.6	8.7	7.8	7.4	6.6	10.4	9.3
Finance, insurance, and real estate	2.5	2.2	4.1	3.2	3.4	1.7	4.7	4.3
Service industries	14.4	14.5	6.9	6.2	6.5	6.2	7.2	6.2
Professional services	6.3	12.0	5.6	4.8	4.6	4.1	6.1	5.1
All other service industries	8.0	2.5	8.4	2.3	8.0	8.0	8.8	7.9
Agricultural wage and salary workers	2.2	1.9	9.2	7.6	8.7	7.0	11.3	9.6
All other classes of workers	12.4	11.7	3.9	3.4	2.9	2.4	5.4	5.0
No previous work experience	15.0	18.9	--	--	--	--	--	--

<sup>1</sup> Percent not shown where base is less than 75,000.

A-13. Unemployed persons by reason for unemployment, sex, age, and race

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
<b>UNEMPLOYMENT LEVEL</b>												
Total unemployed, in thousands	7,577	6,941	2,925	2,522	2,642	2,462	2,008	1,957	5,993	5,285	1,584	1,656
Job losers	3,505	2,869	2,012	1,562	1,103	1,051	390	255	2,854	2,277	651	592
On layoff	978	787	529	415	368	312	80	60	837	654	140	133
Other job losers	2,527	2,082	1,483	1,147	735	739	310	196	2,016	1,623	511	459
Job leavers	1,000	879	363	329	478	403	158	147	847	756	152	123
Reentrants	1,945	1,886	478	520	950	861	518	504	1,457	1,384	488	502
New entrants	1,128	1,308	72	111	113	147	942	1,050	835	869	292	439
Total unemployed, percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	46.3	41.3	68.8	62.0	41.7	42.7	19.4	13.0	47.6	43.1	41.2	35.7
On layoff	12.9	11.3	18.1	16.5	13.9	12.7	4.0	3.0	14.0	12.4	8.9	8.0
Other job losers	33.4	30.0	50.7	45.5	27.8	30.0	15.4	10.0	33.6	30.7	32.3	27.7
Job leavers	13.2	12.7	12.4	13.0	18.1	16.4	7.9	7.5	14.1	14.3	9.6	7.4
Reentrants	25.7	27.2	16.3	20.6	36.0	35.0	25.8	25.8	24.3	26.2	30.8	26.5
New entrants	14.9	18.8	2.5	4.4	4.3	6.0	46.9	53.7	13.9	16.4	18.4	14.2
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate	7.8	7.0	5.6	4.8	7.8	7.1	17.7	17.0	7.0	6.0	14.0	14.2
Job loser rate <sup>1</sup>	3.6	2.9	3.9	3.0	3.3	3.0	3.4	2.2	3.3	2.6	5.7	5.0
Job leaver rate <sup>1</sup>	1.0	.9	.7	.6	1.4	1.2	1.4	1.3	1.0	.9	1.3	1.1
Reentrant rate <sup>1</sup>	2.0	1.9	.9	1.0	2.8	2.5	4.6	4.4	1.7	1.6	4.3	4.3
New entrant rate <sup>1</sup>	1.2	1.3	.1	.2	.3	.4	8.3	9.1	1.0	1.0	2.6	3.7

<sup>1</sup> Unemployment rates are calculated as a percent of the civilian labor force.

A-14. Unemployed persons by reason for unemployment, duration, sex, and age

[Percent distribution]

Reason, sex, and age	July 1977						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
Total, 16 years and over	6,941	100.0	42.6	32.5	24.8	10.3	14.5
Job losers	2,869	100.0	38.5	26.3	35.2	13.8	21.4
On layoff	787	100.0	55.1	23.9	20.9	10.0	10.9
Other job losers	2,082	100.0	32.2	27.2	40.6	15.2	25.4
Job leavers	879	100.0	49.7	26.7	23.5	11.1	12.4
Reentrants	1,886	100.0	44.0	37.0	19.0	8.5	10.5
New entrants	1,308	100.0	45.1	43.5	11.4	4.9	6.5
Males, 20 years and over	2,522	100.0	37.7	28.5	33.8	13.3	20.5
Job losers	1,562	100.0	37.3	24.5	38.3	14.4	23.9
On layoff	415	100.0	57.3	18.8	23.9	11.6	12.3
Other job losers	1,147	100.0	30.0	26.5	43.5	15.4	28.1
Job leavers	329	100.0	48.5	27.4	24.1	10.4	13.7
Reentrants	520	100.0	31.3	40.1	28.6	13.1	15.5
New entrants	111	100.0	41.4	35.1	23.4	7.2	16.2
Females, 20 years and over	2,462	100.0	42.3	30.2	27.5	11.5	16.0
Job losers	1,051	100.0	35.0	29.8	35.2	13.8	21.4
On layoff	312	100.0	48.4	32.1	19.5	9.9	9.6
Other job losers	739	100.0	29.4	28.9	41.7	15.4	26.3
Job leavers	403	100.0	45.7	27.0	27.3	12.9	14.4
Reentrants	861	100.0	50.2	30.9	18.9	7.9	11.0
New entrants	147	100.0	38.8	37.4	23.8	11.6	12.2
Both sexes, 16 to 19 years	1,957	100.0	49.5	40.6	9.9	5.1	4.8
Job losers	255	100.0	60.8	23.5	15.7	9.4	6.3
On layoff	60	(1)	(1)	(1)	(1)	(1)	(1)
Other job losers	196	100.0	55.9	25.6	18.4	12.8	5.6
Job leavers	147	100.0	63.9	24.5	11.6	7.5	4.1
Reentrants	504	100.0	46.3	44.2	9.6	5.0	4.6
New entrants	1,050	100.0	46.2	45.4	8.4	3.7	4.7

<sup>1</sup> Percent not shown where base is less than 75,000.



# HOUSEHOLD DATA

## A-15. Unemployed jobseekers by the jobsearch methods used, sex, age, and race

Sex, age, and race	July 1977								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	6,941	6,020	27.4	6.9	72.9	28.4	14.0	5.9	1.56
16 to 19 years .....	1,957	1,871	22.3	5.0	78.0	24.3	13.6	4.5	1.48
20 to 24 years .....	1,582	1,398	32.5	9.2	74.5	31.5	13.9	3.9	1.66
25 to 34 years .....	1,594	1,334	30.2	7.3	70.2	32.5	11.5	7.4	1.59
35 to 44 years .....	757	578	28.4	6.7	68.9	25.3	20.9	6.6	1.57
45 to 54 years .....	549	441	29.0	7.7	63.5	32.0	13.4	8.8	1.54
55 to 64 years .....	379	288	21.2	5.9	69.8	24.7	14.9	12.5	1.49
65 years and over .....	124	110	20.9	4.5	65.5	21.8	13.6	4.5	1.31
<b>Males, 16 years and over</b> .....	3,560	3,038	30.4	7.5	72.8	26.1	16.5	7.0	1.60
16 to 19 years .....	1,038	996	24.4	4.8	77.3	21.8	14.7	4.5	1.48
20 to 24 years .....	830	703	38.3	9.5	76.7	30.0	15.5	4.1	1.74
25 to 34 years .....	828	675	35.3	8.9	68.6	32.7	15.1	9.6	1.70
35 to 44 years .....	338	250	31.6	12.0	74.0	17.6	29.2	6.8	1.71
45 to 54 years .....	250	196	27.6	5.6	60.2	26.0	18.4	12.8	1.51
55 to 64 years .....	197	143	16.1	5.6	64.3	24.5	16.8	18.2	1.46
65 years and over .....	80	75	24.0	4.0	60.0	20.0	13.3	6.7	1.28
<b>Females, 16 years and over</b> .....	3,381	2,982	24.4	6.2	73.0	30.8	11.4	4.9	1.51
16 to 19 years .....	919	875	19.9	5.1	78.9	27.1	12.2	4.6	1.48
20 to 24 years .....	752	695	26.8	8.9	72.2	33.1	12.4	3.7	1.57
25 to 34 years .....	766	659	25.0	5.6	71.9	32.3	7.7	5.2	1.48
35 to 44 years .....	419	328	25.9	2.7	64.9	31.4	14.6	6.4	1.46
45 to 54 years .....	300	245	30.2	9.4	66.1	36.7	9.4	5.7	1.58
55 to 64 years .....	182	145	26.2	6.2	75.2	24.8	13.8	6.9	1.53
65 years and over .....	44	35	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White</b> .....	5,285	4,506	24.5	6.2	75.1	30.3	13.0	5.5	1.55
Males .....	2,705	2,281	27.4	6.9	74.6	27.9	15.4	7.9	1.60
Females .....	2,580	2,225	21.7	5.5	75.6	32.8	10.6	3.0	1.49
<b>Black and other</b> .....	1,656	1,514	36.0	8.9	66.4	22.7	16.8	7.3	1.58
Males .....	855	757	39.6	9.4	67.2	20.6	19.7	4.2	1.61
Females .....	801	757	32.4	8.3	65.4	25.0	13.9	10.4	1.55

<sup>1</sup> Percent not shown where base is less than 75,000.

waiting to begin a new wage and salary job within 30 days are not actually seeking jobs. It should also be noted that the percent using each method will always total more than 100 because many jobseekers use more than one method.

NOTE: The jobseekers total is less than the total unemployed because persons on layoff or

## A-16. Unemployed jobseekers by the jobsearch methods used, sex, and reason for unemployment

Sex and reason	July 1977								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	6,941	6,020	27.4	6.9	72.9	28.4	14.0	5.9	1.56
Job losers .....	2,869	2,064	32.9	7.5	71.2	29.9	15.5	7.1	1.64
Job leavers .....	879	880	25.7	8.3	76.7	31.5	11.8	4.1	1.58
Reentrants .....	1,886	1,784	26.3	7.0	68.8	29.4	13.3	7.0	1.52
New entrants .....	1,308	1,292	21.4	4.8	78.7	22.6	13.9	3.7	1.45
<b>Males, 16 years and over</b> .....	3,560	3,038	30.4	7.5	72.8	26.1	16.5	7.0	1.60
Job losers .....	1,710	1,251	34.5	7.5	70.2	28.6	18.2	9.1	1.68
Job leavers .....	407	395	29.6	11.4	76.5	29.6	15.2	4.3	1.67
Reentrants .....	793	753	29.0	7.6	72.0	26.0	15.4	8.2	1.58
New entrants .....	651	639	24.7	4.9	76.5	19.1	15.2	3.0	1.43
<b>Females, 16 years and over</b> .....	3,381	2,982	24.4	6.2	73.0	30.8	11.4	4.9	1.51
Job losers .....	1,158	814	30.6	7.4	72.6	32.1	11.3	4.1	1.58
Job leavers .....	473	485	22.5	5.6	76.9	32.8	9.1	3.9	1.51
Reentrants .....	1,093	1,030	24.4	6.4	66.6	31.9	11.9	6.2	1.47
New entrants .....	657	653	18.1	4.7	80.9	26.0	12.6	4.3	1.47

NOTE: See note, table A-15.

## A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Household heads			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
Total .....	7,577	6,941	100.0	100.0	2,672	2,193	100.0	100.0
Less than 5 weeks .....	3,066	2,960	40.5	42.6	940	835	35.2	38.1
5 to 14 weeks .....	2,401	2,258	31.7	32.5	720	634	26.9	28.9
5 to 10 weeks .....	1,885	1,837	24.9	26.5	538	478	20.1	21.8
11 to 14 weeks .....	516	421	6.8	6.1	182	156	6.8	7.1
15 weeks and over .....	2,111	1,724	27.9	24.8	1,013	724	37.9	33.0
15 to 26 weeks .....	805	717	10.6	10.3	352	293	13.2	13.4
27 weeks and over .....	1,306	1,007	17.2	14.5	660	431	24.7	19.7
27 to 51 weeks .....	673	501	8.9	7.2	357	199	13.4	9.1
52 weeks and over .....	633	506	8.4	7.3	303	231	11.3	10.5
Average (mean) duration .....	14.9	13.5	--	--	19.0	16.8	--	--

## A-18. Unemployed persons by duration, sex, age, race, and marital status

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over		July 1976	July 1977	July 1976	July 1977
	July 1977						July 1976	July 1977	July 1976	July 1977
<b>Total, 16 years and over</b> .....	6,941	2,960	2,258	717	1,007	13.5	40.5	42.6	27.9	24.8
16 to 21 years .....	2,721	1,323	1,025	179	195	9.1	47.5	48.6	14.3	13.7
16 to 19 years .....	1,957	968	795	100	94	8.0	49.9	49.5	10.9	9.9
20 to 24 years .....	1,582	647	548	177	210	12.7	39.8	40.9	25.7	24.5
25 to 34 years .....	1,594	649	477	193	275	14.9	38.0	40.8	32.7	29.3
35 to 44 years .....	757	315	174	105	163	16.9	37.1	41.6	37.4	35.4
45 to 54 years .....	549	214	133	78	124	18.4	31.7	39.0	42.0	36.8
55 to 64 years .....	379	133	95	49	101	22.0	33.8	35.2	45.7	39.7
65 years and over .....	124	33	37	15	40	23.5	32.2	26.4	43.9	44.1
<b>Males, 16 years and over</b> .....	3,560	1,459	1,133	405	564	14.4	37.1	41.0	30.5	27.2
16 to 21 years .....	1,451	711	517	118	106	9.2	45.5	49.0	14.5	15.4
16 to 19 years .....	1,038	509	412	70	47	8.0	48.9	49.0	10.4	11.3
20 to 24 years .....	830	324	278	110	118	13.5	35.9	39.1	28.3	27.5
25 to 34 years .....	828	305	239	111	173	17.1	35.6	36.8	37.3	34.3
35 to 44 years .....	338	134	74	47	82	18.8	31.5	39.8	42.4	38.3
45 to 54 years .....	250	89	58	36	68	21.0	23.2	35.5	45.7	41.3
55 to 64 years .....	197	76	44	23	53	22.5	25.4	38.7	54.9	38.9
65 years and over .....	80	22	27	8	23	20.7	(1)	27.5	(1)	38.6
<b>Females, 16 years and over</b> .....	3,381	1,501	1,125	313	443	12.4	44.3	44.4	24.9	22.3
16 to 21 years .....	1,270	612	508	61	89	8.9	50.0	48.2	14.0	11.8
16 to 19 years .....	919	459	382	30	47	8.0	51.1	49.9	11.6	8.4
20 to 24 years .....	752	323	270	67	92	11.7	44.6	42.9	22.4	21.2
25 to 34 years .....	766	345	238	82	102	12.4	40.5	45.0	27.8	23.9
35 to 44 years .....	419	181	100	58	81	15.3	42.9	43.1	32.3	33.0
45 to 54 years .....	300	126	75	43	57	16.3	40.7	41.9	38.0	33.1
55 to 64 years .....	182	57	51	26	48	21.5	43.1	31.5	35.6	40.5
65 years and over .....	44	11	10	7	17	28.7	(1)	(1)	(1)	(1)
<b>White</b> .....	5,285	2,331	1,655	547	753	13.3	40.9	44.1	28.3	24.6
Males .....	2,705	1,137	834	295	438	14.6	37.6	42.0	30.7	27.1
Females .....	2,580	1,194	821	251	315	12.0	44.8	46.3	25.4	21.9
<b>Black and other</b> .....	1,656	629	603	171	254	13.9	38.8	38.0	26.3	25.6
Males .....	855	321	299	109	126	13.9	35.1	27.6	29.6	27.5
Females .....	801	307	304	61	127	13.9	42.6	38.4	23.0	23.6
<b>Males:</b>										
Married, spouse present .....	1,222	465	339	167	251	17.1	31.6	38.1	41.2	34.2
Widowed, divorced, or separated .....	321	122	77	45	78	17.9	37.0	37.9	36.4	38.2
Single (never married) .....	2,017	872	717	193	235	12.2	41.2	43.2	21.1	21.2
<b>Females:</b>										
Married, spouse present .....	1,459	685	404	157	211	12.8	43.2	47.0	29.3	25.3
Widowed, divorced, or separated .....	505	191	151	74	90	15.7	41.7	37.8	31.8	32.3
Single (never married) .....	1,418	625	570	82	142	10.9	46.9	44.1	16.4	15.8

<sup>1</sup> Percent not shown where base is less than 75,000.

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## A-19. Unemployed persons by duration, occupation, and industry of last job

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over		July 1976	July 1977	July 1976	July 1977
	July 1977									
<b>OCCUPATION</b>										
White collar workers	1,969	753	638	234	343	15.1	37.9	38.3	31.2	29.3
Professional and managerial	722	257	224	88	154	17.0	33.7	35.6	32.9	33.5
Sales workers	317	131	106	33	46	13.4	39.4	41.5	25.6	25.2
Clerical workers	950	366	308	113	143	14.2	40.6	39.3	31.5	27.6
Blue-collar workers	2,481	1,061	691	302	427	15.1	37.3	42.7	34.1	29.4
Craft and kindred workers	618	246	191	80	102	14.8	34.4	39.8	35.2	29.4
Operatives, except transport	1,090	487	284	123	195	15.5	37.3	44.7	35.4	29.2
Transport equipment operatives	246	114	67	23	42	13.7	33.4	46.4	42.2	26.5
Nonfarm laborers	528	214	150	76	88	15.2	42.3	40.5	27.2	31.1
Service workers	1,075	494	330	108	143	12.5	43.7	45.9	25.5	23.4
<b>INDUSTRY<sup>1</sup></b>										
Agriculture	132	70	40	14	9	10.1	55.1	52.8	13.6	17.3
Construction	491	196	134	70	92	15.4	34.3	39.9	36.3	32.8
Manufacturing	1,385	606	342	161	276	16.6	35.3	43.7	38.8	31.6
Durable goods	747	326	177	101	143	17.3	31.8	43.7	43.0	32.6
Non-durable goods	639	280	165	60	134	15.7	39.8	43.8	33.2	30.4
Transportation and public utilities	255	92	86	26	52	16.8	38.4	36.0	38.6	30.4
Wholesale and retail trade	1,446	615	434	176	222	14.0	40.2	42.5	28.4	27.5
Finance and service industries	1,603	671	538	162	232	13.2	42.3	41.9	25.2	24.6
Public administration	188	64	60	35	29	14.2	32.6	33.9	42.2	33.9
No previous work experience	1,309	592	568	64	85	9.0	47.7	45.2	9.5	11.4

<sup>1</sup> Includes wage and salary workers only.

## A-20. Employed persons by sex and age

(In thousands)

Age and type of industry	Total		Males		Females	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
	All industries	89,608	92,372	54,264	55,677	35,344
16 to 19 years	9,339	9,547	5,122	5,297	4,218	4,240
16 to 17 years	4,076	4,125	2,302	2,349	1,774	1,776
18 to 19 years	5,263	5,412	2,820	2,948	2,443	2,463
20 to 24 years	13,062	13,519	7,272	7,552	5,790	5,967
25 to 54 years	53,863	55,782	33,457	34,257	20,407	21,525
25 to 34 years	21,705	23,002	13,572	14,146	8,134	8,857
35 to 44 years	16,018	16,769	9,928	10,231	6,090	6,537
45 to 54 years	16,140	16,011	9,957	9,880	6,183	6,131
55 to 64 years	10,676	10,839	6,687	6,805	3,989	4,034
55 to 59 years	6,571	6,755	4,062	4,209	2,510	2,546
60 to 64 years	4,105	4,084	2,626	2,595	1,479	1,488
65 years and over	2,668	2,695	1,728	1,765	940	929
Nonagricultural industries	85,677	88,582	51,123	52,706	34,554	35,876
16 to 19 years	8,635	8,894	4,576	4,791	4,060	4,103
16 to 17 years	3,645	3,747	1,962	2,067	1,683	1,680
18 to 19 years	4,991	5,147	2,614	2,724	2,376	2,423
20 to 24 years	12,575	13,077	6,866	7,197	5,709	5,880
25 to 54 years	52,025	53,963	32,039	32,895	19,985	21,073
25 to 34 years	21,075	22,574	13,067	13,658	8,008	8,716
35 to 44 years	15,509	16,208	9,547	9,825	5,962	6,383
45 to 54 years	15,441	15,386	9,425	9,412	6,015	5,974
55 to 64 years	10,126	10,300	6,228	6,370	3,898	3,930
55 to 59 years	6,271	6,432	3,822	3,952	2,449	2,480
60 to 64 years	3,854	3,768	2,405	2,418	1,449	1,450
65 years and over	2,315	2,347	1,413	1,454	902	890
Agriculture	3,931	3,790	3,141	2,970	790	820
16 to 19 years	704	643	546	506	158	137
16 to 17 years	431	379	340	282	91	97
18 to 19 years	272	265	205	225	67	40
20 to 24 years	457	442	406	355	81	87
25 to 54 years	1,837	1,815	1,415	1,361	422	452
25 to 34 years	630	628	504	487	126	140
35 to 44 years	508	561	380	406	128	154
45 to 54 years	699	626	531	468	168	158
55 to 64 years	550	539	460	435	91	104
55 to 59 years	308	324	259	257	60	66
60 to 64 years	251	216	210	178	30	38
65 years and over	352	352	314	312	38	40

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A-21. Employed persons by occupation, sex, and age

[In thousands]

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
	<b>TOTAL</b>	89,608	92,372	49,143	50,379	31,126	32,456	5,122	5,297	4,218
<b>White-collar workers</b>	43,179	44,765	20,639	21,157	19,838	20,760	751	789	1,950	2,059
Professional and technical	12,712	13,253	7,320	7,562	5,102	5,373	138	147	153	171
Health workers	2,351	2,565	811	906	1,525	1,621	--	9	16	29
Teachers, except college	2,460	2,307	631	582	1,794	1,699	4	9	32	17
Other professional and technical	7,901	8,381	5,878	6,074	1,783	2,053	134	129	105	125
Managers and administrators, except farm	9,298	9,660	7,267	7,448	1,929	2,114	82	63	20	36
Salaried workers	7,468	7,747	5,822	5,965	1,555	1,690	72	60	20	32
Self-employed workers in retail trade	911	1,008	643	699	264	306	3	1	1	2
Self-employed workers, except retail trade	921	906	802	784	111	118	8	2	--	2
Sales workers	5,473	5,750	2,983	2,995	1,848	2,014	231	301	410	439
Retail trade	2,950	3,128	976	995	1,423	1,489	177	241	374	404
Other industries	2,522	2,622	2,008	1,999	425	526	54	61	36	35
Clerical workers	15,695	16,102	3,069	3,152	10,960	11,258	300	279	1,366	1,414
Stenographers, typists, and secretaries	4,592	4,448	36	70	4,119	3,944	18	4	419	430
Other clerical workers	11,103	11,654	3,033	3,082	6,841	7,314	282	275	947	984
<b>Blue-collar workers</b>	30,634	31,652	22,550	23,276	4,761	4,863	2,837	3,011	487	501
Craft and kindred workers	11,816	12,398	10,663	11,220	563	535	534	593	57	50
Carpenters	1,108	1,327	1,019	1,205	10	6	77	112	3	5
Construction craft, except carpenters	2,495	2,627	2,295	2,404	22	27	171	192	7	5
Mechanics and repairers	3,008	3,292	2,807	3,048	24	56	175	184	1	5
Metal craft	1,142	1,197	1,076	1,138	34	26	29	31	3	3
Blue-collar worker supervisors, not elsewhere classified	1,545	1,564	1,404	1,438	123	117	9	9	8	--
All other	2,520	2,389	2,062	1,987	350	303	73	66	35	33
Operatives, except transport	10,353	10,496	5,571	5,601	3,733	3,818	757	776	292	302
Durable goods manufacturing	4,585	4,580	2,878	2,826	1,369	1,384	252	260	85	110
Nondurable goods manufacturing	3,284	3,363	1,271	1,267	1,748	1,839	123	126	142	131
Other industries	2,484	2,553	1,422	1,508	616	595	382	390	65	61
Transport equipment operatives	3,326	3,451	2,986	3,066	136	183	188	178	17	24
Drivers, motor vehicles	2,782	2,922	2,498	2,591	123	161	147	151	14	19
All other	544	529	488	475	13	22	41	27	2	4
Nonfarm laborers	5,139	5,307	3,329	3,389	330	327	1,358	1,465	122	127
Construction	921	1,027	676	715	7	16	236	287	2	9
Manufacturing	1,121	1,187	850	886	122	103	141	188	8	10
Other industries	3,097	3,093	1,803	1,788	201	207	981	989	112	108
<b>Service workers</b>	12,416	12,706	3,700	3,798	5,989	6,262	1,075	1,079	1,652	1,568
Private household workers	1,107	1,171	27	26	783	858	14	15	283	272
Service workers, except private household	11,309	11,535	3,673	3,771	5,205	5,404	1,062	1,064	1,369	1,296
Food service workers	4,093	4,161	711	725	1,962	2,023	578	561	842	852
Protective service workers	1,268	1,325	1,178	1,207	66	90	15	24	10	4
All other	5,948	6,049	1,784	1,839	3,177	3,291	469	479	517	440
<b>Farm workers</b>	3,379	3,249	2,254	2,149	538	571	458	418	129	111
Farmers and farm managers	1,669	1,563	1,525	1,431	116	111	23	21	5	--
Farm laborers and supervisors	1,710	1,686	729	718	423	460	435	397	124	111
Paid workers	1,260	1,218	679	683	170	156	327	309	85	71
Unpaid family workers	450	468	50	35	253	304	108	88	39	40

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## A-22. Employed persons by occupation, sex, and race

[Percent distribution]

Occupation and race	Total		Males		Females	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
<b>TOTAL</b>						
Total employed (thousands) .....	89,608	92,372	54,264	55,677	35,344	36,696
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers .....	48.2	48.5	39.4	39.4	61.6	62.2
Professional and technical .....	14.2	14.3	13.7	13.8	14.9	15.1
Managers and administrators, except farm .....	10.4	10.5	13.5	13.5	5.5	5.9
Sales workers .....	6.1	6.2	5.9	5.9	6.4	6.7
Clerical workers .....	17.5	17.4	6.2	6.2	34.9	34.5
Blue-collar workers .....	34.2	34.3	46.8	47.2	14.8	14.6
Craft and kindred workers .....	13.2	13.4	20.6	21.2	1.8	1.6
Operatives, except transport .....	11.6	11.4	11.7	11.5	11.4	11.2
Transport equipment operatives .....	3.7	3.7	5.8	5.8	.4	.6
Nonfarm laborers .....	5.7	5.7	8.6	8.7	1.3	1.2
Service workers .....	13.9	13.8	8.8	8.8	21.6	21.3
Private household workers .....	1.2	1.3	.1	.1	3.0	3.1
Other service workers .....	12.6	12.5	8.7	8.7	18.6	18.3
Farm workers .....	3.8	3.5	5.0	4.6	1.9	1.9
Farmers and farm managers .....	1.9	1.7	2.9	2.6	.3	.3
Farm laborers and supervisors .....	1.9	1.8	2.1	2.0	1.5	1.6
<b>White</b>						
Total employed (thousands) .....	79,856	82,331	48,931	50,199	30,926	32,132
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers .....	50.0	50.2	41.1	40.9	64.0	64.6
Professional and technical .....	14.6	14.7	14.3	14.4	15.1	15.3
Managers and administrators, except farm .....	11.1	11.2	14.4	14.2	5.9	6.3
Sales workers .....	6.5	6.6	6.3	6.2	7.0	7.3
Clerical workers .....	17.7	17.6	6.1	6.0	36.1	35.7
Blue-collar workers .....	33.6	33.8	45.8	46.4	14.3	14.0
Craft and kindred workers .....	13.7	13.9	21.2	21.8	1.8	1.6
Operatives, except transport .....	11.0	10.9	11.2	11.1	10.8	10.7
Transport equipment operatives .....	3.6	3.6	5.5	5.5	.4	.6
Nonfarm laborers .....	5.3	5.4	7.9	8.0	1.2	1.2
Service workers .....	12.6	12.4	8.0	8.0	19.7	19.4
Private household workers .....	.9	.9	.1	.1	2.2	2.2
Other service workers .....	11.7	11.5	8.0	7.9	17.6	17.2
Farm workers .....	3.9	3.6	5.1	4.7	1.9	1.9
Farmers and farm managers .....	2.0	1.9	3.0	2.8	.4	.3
Farm laborers and supervisors .....	1.9	1.8	2.1	1.9	1.5	1.6
<b>Black and other</b>						
Total employed (thousands) .....	9,752	10,042	5,333	5,478	4,418	4,563
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers .....	33.5	34.6	24.0	25.7	44.9	45.2
Professional and technical .....	11.0	11.1	8.9	8.7	13.5	13.9
Managers and administrators, except farm .....	4.1	4.8	5.4	6.6	2.5	2.5
Sales workers .....	2.7	2.9	2.9	3.1	2.4	2.7
Clerical workers .....	15.7	15.8	6.8	7.2	26.4	26.2
Blue-collar workers .....	39.1	38.5	56.0	55.0	18.7	18.7
Craft and kindred workers .....	8.9	9.4	15.0	16.1	1.5	1.4
Operatives, except transport .....	15.8	15.1	16.3	14.9	15.2	15.3
Transport equipment operatives .....	5.0	5.1	9.0	8.9	.3	.6
Nonfarm laborers .....	9.3	8.9	15.7	15.0	1.6	1.5
Service workers .....	24.4	24.5	15.8	15.9	34.8	34.8
Private household workers .....	4.0	4.2	(1)	.2	8.8	9.0
Other service workers .....	20.4	20.3	15.8	15.7	25.9	25.8
Farm workers .....	3.1	2.4	4.2	3.4	1.7	1.3
Farmers and farm managers .....	.7	.3	1.2	.5	--	.1
Farm laborers and supervisors .....	2.4	2.1	2.9	2.8	1.7	1.3

<sup>1</sup> Less than 0.05 percent.

**HOUSEHOLD DATA**

**A-23. Employed persons by class of worker, age, and sex**

[In thousands]

Age and sex	July 1977								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
<b>Total, 16 years and over</b> .....	81,987	1,465	14,661	65,861	6,073	521	1,620	1,672	499
16 to 19 years .....	8,753	442	987	7,323	90	51	464	42	138
16 to 17 years .....	3,672	359	466	2,847	43	31	280	19	80
18 to 19 years .....	5,080	83	522	4,476	47	20	184	23	57
20 to 24 years .....	12,781	103	1,594	11,084	268	28	303	105	33
25 to 34 years .....	20,841	167	4,068	16,606	1,441	93	293	263	72
35 to 44 years .....	14,728	161	2,902	11,664	1,349	131	201	277	83
45 to 54 years .....	13,862	205	2,926	10,731	1,401	123	194	354	78
55 to 64 years .....	9,188	226	1,905	7,056	1,039	73	102	373	64
55 to 59 years .....	5,770	130	1,274	4,366	612	49	60	222	42
60 to 64 years .....	3,418	96	631	2,690	427	24	42	150	23
65 years and over .....	1,836	160	279	1,397	485	22	63	259	30
<b>Males, 16 years and over</b> .....	48,173	284	7,725	40,164	4,457	77	1,298	1,540	132
16 to 19 years .....	4,700	155	489	4,055	57	34	373	40	93
16 to 17 years .....	2,019	128	251	1,640	28	20	214	18	50
18 to 19 years .....	2,681	28	238	2,415	29	14	159	22	44
20 to 24 years .....	6,999	29	709	6,261	181	17	240	99	16
25 to 34 years .....	12,625	25	2,142	10,458	1,025	8	239	242	6
35 to 44 years .....	8,824	15	1,536	7,273	1,001	--	154	253	--
45 to 54 years .....	8,362	10	1,598	6,754	1,045	4	149	316	3
55 to 64 years .....	5,577	18	1,069	4,490	789	4	88	347	1
55 to 59 years .....	3,481	13	705	2,764	470	1	55	203	--
60 to 64 years .....	2,096	6	364	1,726	319	3	33	144	1
65 years and over .....	1,087	32	182	873	358	8	55	244	13
<b>Females, 16 years and over</b> .....	33,814	1,181	6,936	25,697	1,616	445	322	132	367
16 to 19 years .....	4,053	287	498	3,268	33	17	90	2	44
16 to 17 years .....	1,654	232	215	1,207	15	11	66	--	31
18 to 19 years .....	2,400	55	284	2,061	18	6	25	1	14
20 to 24 years .....	5,782	74	885	4,822	87	11	64	6	18
25 to 34 years .....	8,216	142	1,925	6,149	416	84	54	21	65
35 to 44 years .....	5,904	147	1,367	4,391	348	131	47	24	83
45 to 54 years .....	5,499	195	1,327	3,977	356	119	45	38	75
55 to 64 years .....	3,611	208	837	2,567	250	69	14	26	64
55 to 59 years .....	2,289	117	569	1,602	142	48	5	19	42
60 to 64 years .....	1,322	90	267	964	107	21	9	7	22
65 years and over .....	749	129	97	524	127	14	8	14	17

**A-24. Employed persons by industry and occupation**

[In thousands]

Industry	July 1977											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture .....	3,790	58	41	5	72	37	10	31	277	--	9	3,249
Mining .....	811	113	80	3	76	211	259	47	14	--	8	--
Construction .....	6,052	152	593	13	361	3,396	277	196	1,027	--	37	--
Manufacturing .....	20,835	2,155	1,333	429	2,460	4,115	7,943	812	1,187	--	401	--
Durable goods .....	12,433	1,421	781	129	1,454	2,734	4,580	393	718	--	225	--
Nondurable goods .....	8,401	735	553	300	1,006	1,382	3,363	419	468	--	176	--
Transportation and public utilities .....	5,879	504	555	34	1,329	1,318	173	1,345	456	--	165	--
Wholesale and retail trade .....	19,036	335	3,728	3,988	3,173	1,456	1,023	744	1,186	--	3,402	--
Wholesale trade .....	3,646	106	769	860	753	297	165	397	269	--	30	--
Retail trade .....	15,390	229	2,958	3,128	2,421	1,159	859	347	917	--	3,372	--
Finance, insurance, and real estate .....	5,176	226	981	1,095	2,357	103	17	18	107	--	272	--
Services .....	25,572	8,693	1,735	180	4,461	1,435	739	216	783	1,171	6,160	--
Private households .....	1,497	8	--	--	18	12	2	7	235	1,171	45	--
Other service industries .....	24,075	8,685	1,735	180	4,443	1,423	737	209	548	--	6,115	--
Public administration .....	5,220	1,015	616	4	1,813	326	55	42	268	--	1,081	--

# HOUSEHOLD DATA

## A-25. Employed persons with a job but not at work by reason, pay status, and sex

[In thousands]

Reason not working	All industries		Nonagricultural industries					
			Total		Wage and salary workers <sup>1</sup>			
					Paid absences <sup>2</sup>		Unpaid absences <sup>2</sup>	
	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977	July 1976	July 1977
<b>Total</b> .....	11,493	11,261	11,330	11,115	6,524	6,634	4,159	3,892
Vacation .....	9,158	8,933	9,088	8,874	5,892	5,987	2,817	2,549
Illness .....	1,260	1,296	1,214	1,258	462	479	650	677
Bad weather .....	58	48	36	30	--	--	--	--
Industrial dispute .....	186	138	186	138	--	--	--	--
All other reasons .....	832	846	806	815	170	168	693	666
<b>Males</b> .....	5,629	5,526	5,489	5,398	3,721	3,831	1,418	1,263
Vacation .....	4,360	4,227	4,298	4,175	3,324	3,408	765	598
Illness .....	718	789	678	756	303	324	328	375
All other reasons <sup>3</sup> .....	551	510	513	467	93	100	325	290
<b>Females</b> .....	5,864	5,736	5,840	5,717	2,803	2,803	2,744	2,630
Vacation .....	4,798	4,706	4,790	4,699	2,568	2,579	2,053	1,951
Illness .....	543	507	536	502	159	155	322	302
All other reasons <sup>3</sup> .....	523	523	514	516	77	68	368	377

<sup>1</sup>Excludes private household.

<sup>3</sup>Includes bad weather and industrial dispute, not shown separately.

<sup>2</sup>Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons.

## A-26. Persons at work by type of industry and hours of work

Hours of work	July 1977					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
<b>Total at work</b> .....	81,111	77,467	3,643	100.0	100.0	100.0
<b>1-34 hours</b> .....	18,343	17,383	960	22.6	22.4	26.4
1-4 hours .....	637	602	35	.8	.8	1.0
5-14 hours .....	2,859	2,669	190	3.5	3.4	5.2
15-29 hours .....	9,201	8,668	533	11.3	11.2	14.6
30-34 hours .....	5,646	5,444	202	7.0	7.0	5.5
<b>35 hours and over</b> .....	62,767	60,083	2,683	77.4	77.6	73.6
35-39 hours .....	5,632	5,512	119	6.9	7.1	3.3
40 hours .....	34,553	33,943	610	42.6	43.8	16.7
41 hours and over .....	22,582	20,628	1,954	27.8	26.6	53.6
41 to 48 hours .....	8,649	8,382	267	10.7	10.8	7.3
49 to 59 hours .....	7,309	6,877	432	9.0	8.9	11.9
60 hours and over .....	6,624	5,369	1,255	8.2	6.9	34.4
Average hours, total at work .....	39.8	39.3	47.8	--	--	--
Average hours, workers on full-time schedules .....	43.6	43.0	56.3	--	--	--

**A-27. Persons at work 1 - 34 hours by usual status and reason for working less than 35 hours**

[Numbers in thousands]

Reason for working less than 35 hours	July 1977					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
<b>Total</b> .....	18,343	6,239	12,104	17,383	5,970	11,413
<b>Economic reasons</b> .....	4,391	1,453	2,938	4,074	1,309	2,765
Slack work .....	1,668	1,016	652	1,468	884	584
Material shortages or repairs to plant and equipment .....	102	102	--	102	102	--
New job started during week .....	263	263	--	259	259	--
Job terminated during week .....	72	72	--	64	64	--
Could find only part-time work .....	2,286	--	2,286	2,182	--	2,182
<b>Other reasons</b> .....	13,952	4,786	9,166	13,309	4,661	8,648
Does not want, or unavailable for, full-time work .....	7,023	--	7,023	6,641	--	6,641
Vacation .....	1,341	1,341	--	1,317	1,317	--
Illness .....	1,275	1,105	170	1,241	1,091	150
Bad weather .....	193	193	--	162	162	--
Industrial dispute .....	49	49	--	49	49	--
Legal or religious holiday .....	60	60	--	60	60	--
Full time for this job .....	1,431	--	1,431	1,371	--	1,371
All other reasons .....	2,581	2,038	543	2,468	1,982	486
<b>Average hours:</b>						
Economic reasons .....	21.2	23.5	20.1	21.4	23.8	20.2
Other reasons .....	22.1	26.2	20.0	22.2	26.2	20.0
<b>Worked 30 to 34 hours:</b>						
Economic reasons .....	1,199	561	638	1,135	520	615
Other reasons .....	4,447	2,547	1,900	4,309	2,500	1,809

**A-28. Nonagricultural workers by industry and full- or part-time status**

[Numbers in thousands]

Industry	July 1977								
	Total at work	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules
		On part time for economic reasons	On voluntary part time	On full-time schedules					
				Total	40 hours or less	41 to 48 hours	49 hours or more		
<b>Total</b> <sup>1</sup> .....	77,467	4,074	8,648	64,745	44,117	8,382	12,246	39.3	43.0
<b>Wage and salary workers</b> .....	71,360	3,739	7,667	59,954	42,135	7,793	10,026	39.0	42.5
Construction .....	4,742	338	161	4,243	3,056	498	689	40.2	42.3
Manufacturing .....	17,456	481	476	16,499	11,398	2,619	2,482	41.2	42.3
Durable goods .....	10,418	224	204	9,990	6,851	1,595	1,544	41.6	42.4
Nondurable goods .....	7,038	257	273	6,508	4,547	1,023	938	40.6	42.2
Transportation and public utilities .....	4,974	128	211	4,635	3,228	570	837	41.8	43.2
Wholesale and retail trade .....	15,536	1,339	2,747	11,450	7,165	1,875	2,410	37.7	43.4
Finance, insurance, and real estate .....	4,398	94	404	3,900	2,941	382	577	39.1	41.5
Service industries .....	18,875	1,258	3,413	14,204	10,633	1,350	2,221	36.5	42.2
Private households .....	1,364	316	615	433	286	52	95	23.5	44.6
All other industries .....	17,511	942	2,798	13,771	10,347	1,298	2,126	37.5	42.1
Public administration .....	4,729	87	242	4,400	3,383	401	616	40.8	42.1
<b>Self-employed workers</b> .....	5,586	318	797	4,471	1,823	548	2,100	43.2	49.5
Unpaid family workers .....	521	17	184	320	158	40	122	37.7	47.8

<sup>1</sup> Includes mining not shown separately.



# HOUSEHOLD DATA

## A-29. Persons at work in nonagricultural industries by full- or part-time status, sex, age, race, and marital status

[Numbers in thousands]

Sex, age, race, and marital status	July 1977							Average hours, workers on full-time schedules
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Both sexes, 16 years and over .....	77,467	4,074	8,648	64,745	44,117	20,628	39.3	43.0
16 to 21 years .....	13,418	1,887	2,623	8,908	6,743	2,165	34.4	41.4
16 to 19 years .....	8,434	1,512	2,102	4,820	3,665	1,155	32.2	41.2
16 to 17 years .....	3,570	832	1,338	1,400	1,094	306	27.9	40.9
18 to 19 years .....	4,864	680	764	3,420	2,571	849	35.4	41.3
20 years and over .....	69,034	2,562	6,546	59,926	40,454	19,472	40.2	43.2
20 to 24 years .....	12,072	758	1,109	10,205	7,365	2,840	38.9	42.0
25 years and over .....	56,962	1,804	5,437	49,721	33,089	16,632	40.5	43.4
25 to 44 years .....	33,219	1,059	2,672	29,488	19,229	10,259	41.0	43.6
45 to 64 years .....	21,690	654	1,845	19,191	13,186	6,005	40.6	43.1
65 years and over .....	2,051	91	920	1,040	670	370	30.6	44.1
<b>Males, 16 years and over .....</b>	<b>47,309</b>	<b>2,078</b>	<b>2,636</b>	<b>42,595</b>	<b>26,092</b>	<b>16,503</b>	<b>42.0</b>	<b>44.4</b>
16 to 21 years .....	7,260	978	1,149	5,133	3,624	1,509	36.0	42.3
16 to 19 years .....	4,567	795	918	2,854	2,071	783	33.8	41.8
16 to 17 years .....	1,981	449	629	903	695	208	29.7	41.2
18 to 19 years .....	2,586	346	289	1,951	1,377	574	36.9	42.1
20 years and over .....	42,742	1,284	1,718	39,740	24,020	15,720	42.9	44.6
20 to 24 years .....	6,727	383	450	5,894	3,757	2,137	40.8	43.5
25 years and over .....	36,015	901	1,268	33,846	20,263	13,583	43.3	44.8
25 to 44 years .....	20,993	551	415	20,027	11,584	8,443	44.0	45.1
45 to 64 years .....	13,722	294	325	13,103	8,229	4,874	43.3	44.4
65 years and over .....	1,300	56	528	716	450	266	31.8	43.9
<b>Females, 16 years and over .....</b>	<b>30,159</b>	<b>1,996</b>	<b>6,012</b>	<b>22,151</b>	<b>18,026</b>	<b>4,125</b>	<b>35.1</b>	<b>40.5</b>
16 to 21 years .....	6,158	909	1,474	3,775	3,120	655	32.6	40.2
16 to 19 years .....	3,867	718	1,184	1,965	1,593	372	30.4	40.3
16 to 17 years .....	1,589	384	709	496	398	98	25.6	40.5
18 to 19 years .....	2,278	335	475	1,468	1,193	275	33.7	40.2
20 years and over .....	26,292	1,277	4,828	20,187	16,434	3,753	35.8	40.5
20 to 24 years .....	5,345	375	659	4,311	3,608	703	36.4	39.9
25 years and over .....	20,947	902	4,169	15,876	12,826	3,050	35.6	40.7
25 to 44 years .....	12,227	509	2,257	9,461	7,644	1,817	35.9	40.5
45 to 64 years .....	7,969	360	1,520	6,089	4,958	1,131	35.9	40.6
65 years and over .....	751	35	392	324	220	104	28.6	44.5
<b>RACE</b>								
White .....	68,929	3,435	7,765	57,729	38,470	19,259	39.6	43.3
Males .....	42,575	1,756	2,347	38,472	23,016	15,456	42.3	44.6
Females .....	26,354	1,679	5,418	19,257	15,454	3,803	35.1	40.6
Black and other .....	8,538	639	883	7,016	5,646	1,370	37.4	41.1
Males .....	4,734	322	289	4,123	3,076	1,047	39.4	42.2
Females .....	3,805	316	594	2,895	2,573	322	34.9	39.5
<b>MARITAL STATUS</b>								
<b>Males:</b>								
Married, spouse present .....	32,432	713	1,040	30,679	17,935	12,744	43.6	44.9
Widowed, divorced, or separated .....	3,340	137	170	3,033	1,932	1,101	41.8	44.1
Single (never married) .....	11,537	1,229	1,426	8,882	6,225	2,657	37.6	42.6
<b>Females:</b>								
Married, spouse present .....	15,673	689	3,564	11,420	9,429	1,991	34.8	40.3
Widowed, divorced, or separated .....	5,752	320	796	4,636	3,597	1,039	37.1	41.1
Single (never married) .....	8,734	986	1,652	6,096	5,001	1,095	34.4	40.3

## A-30. Persons at work in nonfarm occupations by full- or part-time status and sex

[Numbers in thousands]

Occupational group and sex	July 1977								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full- time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
<b>TOTAL</b>									
White-collar workers	38,856	1,243	4,547	33,066	22,299	3,759	7,008	39.8	43.3
Professional and technical	10,517	239	1,130	9,148	6,211	974	1,963	40.2	43.4
Managers and administrators, except farm	8,744	100	385	8,259	3,967	1,172	3,120	45.6	47.1
Sales workers	5,271	312	1,031	4,986	3,386	542	1,058	38.1	44.3
Clerical workers	14,324	591	2,001	11,732	9,795	1,070	867	36.7	40.1
Blue-collar workers	27,802	1,629	1,447	24,726	16,703	3,754	4,269	40.5	42.9
Craft and kindred workers	11,005	465	310	10,230	6,672	1,533	2,025	41.9	43.5
Operatives, except transport	8,864	445	401	8,018	5,773	1,265	980	40.1	41.9
Transport equipment operatives	3,011	120	133	2,758	1,511	453	794	43.5	45.6
Nonfarm laborers	4,922	598	602	3,722	2,748	503	471	36.4	41.7
Service workers	11,310	1,246	2,748	7,316	5,331	919	1,066	34.6	42.6
Private household	1,076	206	506	364	230	44	90	25.2	45.7
Other service workers	10,234	1,040	2,243	6,951	5,099	876	976	35.6	42.4
<b>Males</b>									
White-collar workers	19,752	388	1,007	18,357	10,212	2,426	5,719	43.8	45.6
Professional and technical	6,770	130	386	6,254	3,907	706	1,641	42.7	44.6
Managers and administrators, except farm	6,838	67	167	6,604	2,889	932	2,783	47.1	48.1
Sales workers	3,083	99	236	2,748	1,408	418	922	42.9	45.8
Clerical workers	3,061	92	218	2,751	2,008	370	373	39.9	42.0
Blue-collar workers	23,465	1,305	1,037	21,123	13,772	3,290	4,061	41.2	43.4
Craft and kindred workers	10,541	429	266	9,846	6,386	1,475	1,985	42.1	43.5
Operatives, except transport	5,538	228	179	5,131	3,377	895	859	41.6	43.1
Transport equipment operatives	2,870	112	98	2,660	1,443	445	772	44.0	45.8
Nonfarm laborers	4,516	536	493	3,487	2,566	475	446	36.7	41.8
Service workers	4,465	418	631	3,416	2,278	470	668	38.5	43.9
Private household	39	12	8	19	11	1	7	30.5	50.0
Other service workers	4,427	406	624	3,397	2,268	469	660	38.6	43.9
<b>Females</b>									
White-collar workers	19,104	856	3,540	14,708	12,086	1,333	1,289	35.7	40.3
Professional and technical	3,747	110	744	2,893	2,303	268	322	35.6	40.7
Managers and administrators, except farm	1,906	33	218	1,655	1,078	240	337	40.4	43.4
Sales workers	2,188	214	795	1,179	919	124	136	31.3	40.9
Clerical workers	11,263	499	1,783	8,981	7,787	700	494	35.8	39.6
Blue-collar workers	4,337	323	410	3,604	2,933	464	207	37.0	40.1
Craft and kindred workers	464	36	44	384	286	58	40	38.2	41.7
Operatives, except transport	3,326	217	221	2,888	2,396	370	122	37.5	39.8
Transport equipment operatives	141	8	35	98	69	8	21	34.1	40.8
Nonfarm laborers	406	62	109	235	181	28	26	32.7	41.2
Service workers	6,844	828	2,117	3,899	3,051	449	399	32.1	41.4
Private household	1,037	195	498	344	219	42	83	25.0	45.4
Other service workers	5,807	633	1,619	3,555	2,832	407	316	33.4	41.0

# HOUSEHOLD DATA

## A-31. Employment status of 14-15 year-olds by sex and race

[Numbers in thousands]

Employment status	July 1977								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population .....	8,285	4,216	4,069	6,971	3,556	3,415	1,314	660	654
Civilian labor force .....	2,752	1,588	1,163	2,423	1,403	1,020	329	186	143
Employed .....	2,343	1,358	985	2,145	1,234	911	199	124	75
Agriculture .....	451	337	114	421	315	107	30	23	7
Nonagricultural industries .....	1,892	1,021	871	1,723	920	804	169	101	68
Unemployed .....	409	231	178	278	169	110	130	62	68
Unemployment rate .....	14.9	14.6	15.3	11.5	12.1	10.8	39.5	33.3	47.6
Not in labor force .....	5,533	2,627	2,906	4,548	2,153	2,395	985	474	511
Keeping house .....	325	19	306	248	15	233	77	5	73
Going to school .....	510	246	263	400	187	212	110	59	51
Unable to work .....	11	8	3	10	8	2	1	--	1
All other reasons .....	4,687	2,353	2,333	3,890	1,943	1,947	797	410	387

## A-32. Employed 14-15 year-olds by sex, class of worker, and occupation

Characteristics	July 1977					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
Total .....	2,343	1,358	985	100.0	100.0	100.0
Nonagricultural industries .....	1,892	1,021	871	80.8	75.1	88.4
Wage and salary workers .....	1,763	928	834	75.2	68.3	84.7
Private household workers .....	663	186	477	28.3	13.7	48.4
Government workers .....	247	170	77	10.5	12.5	7.8
Other wage and salary workers .....	853	572	281	36.4	42.1	28.5
Self-employed workers .....	100	73	27	4.3	5.4	2.7
Unpaid family workers .....	29	20	10	1.2	1.5	1.0
Agriculture .....	451	337	114	19.2	24.9	11.6
Wage and salary workers .....	304	226	78	13.0	16.6	7.9
Self-employed workers .....	35	29	6	1.5	2.1	.6
Unpaid family workers .....	112	83	30	4.8	6.1	3.0
<b>OCCUPATION</b>						
Total .....	2,343	1,358	985	100.0	100.0	100.0
White-collar workers .....	327	208	119	14.0	15.5	12.2
Professional and technical .....	27	17	10	1.2	1.3	1.0
Managers and administrators, except farm .....	--	--	--	--	--	--
Sales workers .....	211	165	46	9.0	12.1	4.7
Clerical workers .....	91	28	64	3.9	2.1	6.5
Blue-collar workers .....	631	555	75	26.9	40.8	7.6
Craft and kindred workers .....	62	56	6	2.6	4.1	.6
Operatives, except transport .....	73	63	10	3.1	4.6	1.0
Transport equipment operatives .....	13	9	4	.6	.7	.4
Nonfarm laborers .....	482	427	55	20.6	31.4	5.6
Service workers .....	987	302	685	42.1	22.2	69.5
Private household workers .....	486	19	467	20.7	1.4	47.4
Other service workers .....	501	283	218	21.4	20.8	22.1
Farm workers .....	398	292	106	17.0	21.5	10.8
Farmers and farm managers .....	6	3	3	.3	.2	.3
Farm laborers and supervisors .....	392	289	103	16.7	21.3	10.4

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-33. Employment status of the noninstitutional population by sex and age, seasonally adjusted**

[Numbers in thousands]

Employment status	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	156,142	156,367	156,595	156,788	157,006	157,176	157,381	157,584	157,782	157,986	158,228	158,456	158,682
Armed Forces <sup>1</sup> .....	2,140	2,147	2,145	2,147	2,149	2,146	2,133	2,137	2,138	2,132	2,128	2,129	2,135
Civilian noninstitutional population <sup>1</sup> .....	154,002	154,220	154,451	154,642	154,857	155,031	155,248	155,447	155,643	155,854	156,101	156,327	156,547
Civilian labor force .....	95,189	95,351	95,242	95,302	95,871	95,960	95,516	96,145	96,539	96,760	97,158	97,641	97,305
Percent of civilian population .....	61.8	61.8	61.7	61.6	61.9	61.9	61.5	61.9	62.0	62.1	62.2	62.5	62.2
Employed .....	87,783	87,834	87,794	87,738	88,220	88,441	88,558	88,962	89,475	90,023	90,408	90,679	90,561
Percent of total population .....	56.2	56.2	56.1	56.0	56.2	56.3	56.3	56.5	56.7	57.0	57.1	57.2	57.1
Agriculture .....	3,333	3,372	3,278	3,310	3,248	3,257	3,090	3,090	3,116	3,260	3,386	3,338	3,213
Nonagricultural industries .....	84,450	84,462	84,516	84,428	84,972	85,184	85,468	85,872	86,359	86,763	87,022	87,341	87,348
Unemployed .....	7,406	7,517	7,448	7,564	7,651	7,519	6,958	7,183	7,064	6,737	6,750	6,962	6,744
Unemployment rate .....	7.8	7.9	7.8	7.9	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9
Not in labor force .....	58,813	58,869	59,209	59,340	58,986	59,071	59,732	59,302	59,104	59,094	58,943	58,686	59,242
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	66,279	66,384	66,491	66,598	66,699	66,835	66,930	67,025	67,114	67,209	67,324	67,431	67,537
Civilian noninstitutional population <sup>1</sup> .....	64,586	64,688	64,796	64,902	65,001	65,140	65,250	65,342	65,423	65,522	65,641	65,743	65,845
Civilian labor force .....	51,675	51,698	51,851	51,912	52,066	52,078	51,842	52,092	52,061	52,089	52,282	52,497	52,494
Percent of civilian population .....	80.0	79.9	80.0	80.0	80.1	79.9	79.5	79.7	79.6	79.5	79.6	79.9	79.7
Employed .....	48,544	48,638	48,701	48,684	48,773	48,859	48,961	49,091	49,267	49,465	49,531	49,859	49,794
Percent of total population .....	73.2	73.3	73.2	73.1	73.1	73.1	73.2	73.2	73.4	73.6	73.6	73.9	73.7
Agriculture .....	2,429	2,393	2,341	2,334	2,283	2,273	2,209	2,230	2,208	2,280	2,373	2,372	2,305
Nonagricultural industries .....	46,115	46,245	46,360	46,350	46,490	46,586	46,752	46,861	47,059	47,185	47,158	47,487	47,489
Unemployed .....	3,131	3,060	3,150	3,228	3,293	3,219	2,881	3,001	2,794	2,624	2,751	2,638	2,700
Unemployment rate .....	6.1	5.9	6.1	6.2	6.3	6.2	5.6	5.8	5.4	5.0	5.3	5.0	5.1
Not in labor force .....	12,911	12,990	12,945	12,990	12,935	13,062	13,408	13,250	13,362	13,433	13,359	13,246	13,351
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	73,053	73,168	73,286	73,378	73,491	73,535	73,642	73,746	73,852	73,958	74,081	74,198	74,315
Civilian noninstitutional population <sup>1</sup> .....	72,966	73,078	73,196	73,288	73,401	73,445	73,550	73,654	73,757	73,863	73,987	74,101	74,217
Civilian labor force .....	34,487	34,562	34,540	34,444	34,848	34,938	34,740	34,982	35,295	35,455	35,634	35,675	35,667
Percent of civilian population .....	47.3	47.3	47.2	47.0	47.5	47.6	47.2	47.5	47.9	48.0	48.2	48.1	48.1
Employed .....	31,853	31,883	31,906	31,811	32,208	32,340	32,331	32,477	32,750	32,985	33,288	33,116	33,212
Percent of total population .....	43.6	43.6	43.5	43.4	43.8	44.0	43.9	44.0	44.3	44.6	44.9	44.6	44.7
Agriculture .....	486	532	520	553	558	573	488	485	496	577	597	564	525
Nonagricultural industries .....	31,367	31,351	31,386	31,258	31,650	31,767	31,843	31,992	32,254	32,408	32,691	32,552	32,687
Unemployed .....	2,634	2,679	2,634	2,633	2,640	2,598	2,409	2,505	2,545	2,470	2,346	2,559	2,455
Unemployment rate .....	7.6	7.8	7.6	7.6	7.6	7.4	6.9	7.2	7.2	7.0	6.6	7.2	6.9
Not in labor force .....	38,479	38,516	38,656	38,844	38,553	38,507	38,810	38,672	38,462	38,408	38,353	38,426	38,550
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,811	16,815	16,819	16,812	16,816	16,806	16,810	16,813	16,816	16,819	16,823	16,827	16,830
Civilian noninstitutional population <sup>1</sup> .....	16,450	16,454	16,458	16,452	16,455	16,446	16,448	16,451	16,464	16,468	16,473	16,483	16,485
Civilian labor force .....	9,027	9,091	8,851	8,946	8,957	8,944	8,934	9,071	9,183	9,216	9,242	9,469	9,144
Percent of civilian population .....	54.9	55.3	53.8	54.4	54.4	54.4	54.3	55.1	55.8	56.0	56.1	57.4	55.5
Employed .....	7,386	7,313	7,187	7,243	7,239	7,242	7,266	7,394	7,458	7,573	7,589	7,704	7,555
Percent of total population .....	43.9	43.5	42.7	43.1	43.0	43.1	43.2	44.0	44.4	45.0	45.1	45.8	44.9
Agriculture .....	418	447	417	423	407	411	393	375	412	403	416	402	383
Nonagricultural industries .....	6,968	6,866	6,770	6,820	6,832	6,831	6,873	7,019	7,046	7,170	7,173	7,302	7,172
Unemployed .....	1,641	1,778	1,664	1,703	1,718	1,702	1,668	1,677	1,725	1,643	1,653	1,765	1,589
Unemployment rate .....	18.2	19.6	18.8	19.0	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4
Not in labor force .....	7,423	7,363	7,607	7,506	7,498	7,502	7,514	7,380	7,281	7,252	7,231	7,014	7,341

<sup>1</sup> The population and Armed Forces figures are not adjusted for seasonal variations.

NOTE: Detail for the household data shown in tables A-33 through A-43 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

**A-34. Full- and part-time status of the civilian labor force, seasonally adjusted**

[Numbers in thousands]

Full- and part-time employment status	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>FULL TIME</b>													
Total, 16 years and over:													
Civilian labor force .....	81,006	81,177	80,977	81,297	81,786	82,048	81,730	81,946	82,074	82,229	82,738	83,306	82,994
Employed .....	75,128	75,092	74,879	75,135	75,601	75,923	76,223	76,295	76,606	76,886	77,349	77,905	77,587
Unemployed .....	5,878	6,085	6,098	6,162	6,185	6,125	5,507	5,651	5,468	5,343	5,389	5,401	5,407
Unemployment rate .....	7.3	7.5	7.5	7.6	7.6	7.5	6.7	6.9	6.7	6.5	6.5	6.5	6.5
<b>PART TIME</b>													
Total, 16 years and over:													
Civilian labor force .....	14,181	14,351	14,340	14,059	14,046	13,912	13,980	14,265	14,426	14,587	14,435	14,192	14,229
Employed .....	12,681	12,922	12,963	12,610	12,577	12,546	12,549	12,736	12,820	13,146	13,006	12,668	12,925
Unemployed .....	1,500	1,429	1,377	1,449	1,469	1,366	1,431	1,529	1,606	1,441	1,429	1,524	1,304
Unemployment rate .....	10.6	10.0	9.6	10.3	10.5	9.8	10.2	10.7	11.1	9.9	9.9	10.7	9.2

NOTE: Persons on part-time schedules for economic reasons are included in the full-time employed category; unemployed persons are allocated by whether seeking full- or part-time work.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-35. Employment status by race, sex, and age, seasonally adjusted**

[Numbers in thousands]

Characteristics	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>WHITE</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force	84,254	84,403	84,313	84,511	84,816	84,854	84,616	85,086	85,482	85,642	85,937	86,268	85,968
Employed	78,295	78,370	78,276	78,384	78,647	78,828	78,923	79,365	79,832	80,249	80,603	80,813	80,752
Unemployed	5,959	6,033	6,037	6,127	6,169	6,026	5,693	5,721	5,650	5,393	5,334	5,455	5,216
Unemployment rate	7.1	7.1	7.2	7.2	7.3	7.1	6.7	6.7	6.6	6.3	6.2	6.3	6.1
<b>Males, 20 years and over:</b>													
Civilian labor force	46,287	46,355	46,489	46,561	46,667	46,624	46,347	46,605	46,584	46,600	46,769	46,967	46,948
Employed	43,726	43,831	43,844	43,926	43,996	44,044	44,035	44,159	44,299	44,434	44,563	44,856	44,811
Unemployed	2,561	2,524	2,645	2,635	2,671	2,580	2,312	2,446	2,285	2,166	2,206	2,111	2,137
Unemployment rate	5.5	5.4	5.7	5.7	5.7	5.5	5.0	5.2	4.9	4.6	4.7	4.5	4.6
<b>Females, 20 years and over:</b>													
Civilian labor force	29,834	29,922	29,876	29,914	30,138	30,211	30,071	30,261	30,588	30,663	30,838	30,879	30,868
Employed	27,750	27,806	27,805	27,775	28,017	28,143	28,170	28,328	28,604	28,781	29,021	28,895	28,958
Unemployed	2,084	2,116	2,071	2,139	2,121	2,068	1,901	1,933	1,984	1,882	1,817	1,984	1,910
Unemployment rate	7.0	7.1	6.9	7.2	7.0	6.8	6.3	6.4	6.5	6.1	5.9	6.4	6.2
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force	8,133	8,126	7,948	8,036	8,011	8,019	8,198	8,220	8,310	8,379	8,330	8,422	8,152
Employed	6,819	6,733	6,627	6,683	6,634	6,641	6,718	6,878	6,929	7,034	7,019	7,062	6,983
Unemployed	1,314	1,393	1,321	1,353	1,377	1,378	1,480	1,342	1,381	1,345	1,311	1,360	1,169
Unemployment rate	16.2	17.1	16.6	16.8	17.2	17.2	18.1	16.3	16.6	16.1	15.7	16.1	14.3
<b>BLACK AND OTHER</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force	10,868	10,979	10,906	10,910	11,114	11,109	11,030	11,163	11,104	11,071	11,171	11,325	11,236
Employed	9,464	9,484	9,508	9,444	9,618	9,623	9,648	9,697	9,690	9,711	9,730	9,833	9,758
Unemployed	1,404	1,495	1,398	1,466	1,496	1,486	1,382	1,466	1,414	1,360	1,441	1,492	1,478
Unemployment rate	12.9	13.6	12.8	13.4	13.5	13.4	12.5	13.1	12.7	12.3	12.9	13.2	13.2
<b>Males, 20 years and over:</b>													
Civilian labor force	5,355	5,376	5,371	5,388	5,437	5,457	5,464	5,523	5,506	5,432	5,502	5,551	5,494
Employed	4,789	4,822	4,847	4,802	4,806	4,838	4,907	4,976	4,991	4,972	4,959	5,018	4,941
Unemployed	566	554	524	586	631	619	557	547	515	460	543	533	553
Unemployment rate	10.6	10.3	9.8	10.9	11.6	11.3	10.2	9.9	9.4	8.5	9.9	9.6	10.1
<b>Females, 20 years and over:</b>													
Civilian labor force	4,600	4,632	4,639	4,602	4,728	4,714	4,674	4,758	4,725	4,775	4,811	4,784	4,741
Employed	4,074	4,079	4,108	4,072	4,209	4,173	4,171	4,167	4,176	4,188	4,245	4,215	4,223
Unemployed	526	553	531	530	519	541	503	591	549	587	566	569	518
Unemployment rate	11.4	11.9	11.4	11.5	11.0	11.5	10.8	12.4	11.6	12.3	11.8	11.9	10.9
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force	913	971	896	920	949	938	892	882	873	864	858	990	1,001
Employed	601	583	553	570	603	612	570	554	523	551	526	600	594
Unemployed	312	388	343	350	346	326	322	328	350	313	332	390	407
Unemployment rate	34.2	40.0	38.3	38.0	36.5	34.8	36.1	37.2	40.1	36.2	38.7	39.4	40.7

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-36. Major unemployment indicators, seasonally adjusted**

[Unemployment rates]

Selected categories	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>Characteristics</b>													
Total (all civilian workers)	7.8	7.9	7.8	7.9	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9
Males, 20 years and over	6.1	5.9	6.1	6.2	6.3	6.2	5.6	5.8	5.4	5.0	5.3	5.0	5.1
Females, 20 years and over	7.6	7.8	7.6	7.6	7.6	7.4	6.9	7.2	7.2	7.0	6.6	7.2	6.9
Both sexes, 16-19 years	18.2	19.6	18.8	19.0	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4
White	7.1	7.1	7.2	7.2	7.3	7.1	6.7	6.7	6.6	6.3	6.2	6.3	6.1
Black and other	12.9	13.6	12.8	13.4	13.5	13.4	12.5	13.1	12.7	12.3	12.9	13.2	13.2
Household heads	5.3	5.2	5.4	5.4	5.3	5.1	4.8	4.9	4.6	4.4	4.5	4.3	4.3
Married men	4.4	4.3	4.5	4.4	4.5	4.3	3.8	4.1	3.7	3.6	3.6	3.4	3.4
Full-time workers	7.3	7.5	7.5	7.6	7.6	7.5	6.7	6.9	6.7	6.5	6.5	6.5	6.5
Part-time workers	10.6	10.0	9.6	10.3	10.5	9.8	10.2	10.7	11.1	9.9	9.9	10.7	9.2
Unemployed 15 weeks and over <sup>1</sup>	2.4	2.5	2.4	2.5	2.6	2.6	2.4	2.3	2.0	1.9	1.9	1.8	1.9
Labor force time lost <sup>2</sup>	8.1	8.4	8.4	8.6	8.6	8.4	8.0	7.9	7.8	7.4	7.5	7.5	7.4
<b>OCCUPATION</b>													
White-collar workers	4.7	4.9	4.6	4.6	4.7	4.5	4.5	4.6	4.7	4.4	4.3	4.2	4.0
Professional and technical	3.1	3.1	3.0	3.2	3.4	3.3	3.3	3.3	3.1	3.2	2.9	3.0	2.8
Managers and administrators, except farm	3.4	3.5	3.2	3.0	3.1	3.1	3.0	2.8	3.4	2.9	2.8	2.7	2.6
Sales workers	5.4	5.8	5.6	5.4	5.7	5.0	5.7	5.6	5.5	5.1	5.5	5.2	5.4
Clerical workers	6.6	7.0	6.2	6.2	6.3	6.1	6.0	6.4	6.5	6.0	5.7	5.7	5.4
Blue-collar workers	9.7	9.8	9.8	9.8	9.7	9.6	8.4	8.7	8.3	7.8	7.9	7.7	8.2
Craft and kindred workers	7.2	7.0	6.9	6.8	7.0	7.0	6.1	6.5	6.0	4.9	5.6	5.6	5.6
Operatives, except transport	11.1	11.3	11.5	11.6	11.3	11.0	9.2	9.6	9.2	9.3	8.9	9.4	10.1
Transport equipment operatives	8.2	8.1	8.0	8.3	8.2	8.1	7.2	7.7	6.9	6.0	6.7	5.7	7.5
Nonfarm laborers	13.4	14.5	14.6	14.0	13.5	13.9	12.9	12.8	13.2	12.6	12.5	10.9	10.7
Service workers	8.6	8.5	8.7	9.4	9.3	9.0	8.6	8.4	7.9	8.1	9.0	8.2	7.7
Farm workers	4.3	3.6	4.0	4.2	5.1	6.1	4.8	6.7	5.4	4.8	4.4	4.8	3.8
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup>	8.0	8.2	8.1	8.2	8.2	7.9	7.4	7.6	7.4	7.0	7.1	6.9	6.8
Construction	17.0	16.5	15.7	15.1	15.4	14.1	14.9	15.2	14.2	12.0	13.0	12.6	12.1
Manufacturing	7.8	8.1	8.1	8.2	8.2	8.2	6.9	7.1	6.6	6.7	6.2	6.3	6.7
Durable goods	7.5	7.7	7.6	8.0	7.7	8.0	6.5	7.0	6.6	6.0	5.7	5.6	6.1
Nondurable goods	8.4	8.7	8.9	8.5	8.9	8.6	7.4	7.3	7.3	7.7	7.0	7.3	7.6
Transportation and public utilities	5.2	4.8	5.4	5.6	5.7	5.2	4.7	4.6	5.1	4.4	4.3	4.1	4.7
Wholesale and retail trade	8.6	8.9	8.9	8.9	9.0	8.2	8.4	8.7	8.4	7.8	8.3	7.9	7.7
Finance and service industries	6.4	6.6	6.4	6.7	6.8	6.8	6.2	6.2	6.4	6.1	6.6	6.0	5.7
Government workers	4.5	4.4	3.9	4.4	4.3	4.4	4.3	4.5	4.0	4.0	4.1	4.2	3.9
Agricultural wage and salary workers	11.8	10.4	11.2	11.5	13.2	14.0	12.6	13.4	13.2	12.3	11.5	11.0	9.7

<sup>1</sup> Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

<sup>2</sup> Aggregate hours lost by the unemployed and persons on part-time for economic reasons

<sup>3</sup> Includes mining, not shown separately.

**A-37. Unemployed persons by duration of unemployment, seasonally adjusted**

[Numbers in thousands]

Weeks of unemployment	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>Duration</b>													
Less than 5 weeks	2,931	2,867	2,852	2,952	2,759	2,765	2,762	2,804	3,005	3,100	2,782	3,058	2,830
5 to 14 weeks	2,093	2,433	2,426	2,367	2,494	2,319	2,083	2,107	2,098	1,857	2,093	2,023	1,969
15 weeks and over	2,247	2,341	2,311	2,360	2,517	2,514	2,283	2,182	1,923	1,816	1,836	1,737	1,834
15 to 26 weeks	1,058	1,127	1,118	1,094	1,188	1,130	1,038	947	777	715	800	798	917
27 weeks and over	1,189	1,214	1,193	1,266	1,329	1,384	1,245	1,235	1,146	1,101	1,036	939	917
Average (mean) duration, in weeks	15.6	15.4	15.4	15.3	15.5	15.6	15.5	14.7	14.0	14.3	14.9	14.4	14.1
<b>Percent distribution</b>													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	40.3	37.5	37.6	38.4	35.5	36.4	38.7	39.5	42.8	45.8	41.5	44.9	42.7
5 to 14 weeks	28.8	31.8	32.0	30.8	32.1	30.5	29.2	29.7	29.9	27.4	31.2	29.7	29.7
15 weeks and over	30.9	30.6	30.5	30.7	32.4	33.1	32.0	30.8	27.4	26.8	27.4	25.5	27.6
15 to 26 weeks	14.6	14.7	14.7	14.2	15.3	14.9	14.6	13.4	11.1	10.6	11.9	11.7	13.8
27 weeks and over	16.4	15.9	15.7	16.5	17.1	18.2	17.5	17.4	16.3	16.3	15.4	13.8	13.8

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-38. Rates of unemployment by sex and age, seasonally adjusted**

Sex and age	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>Total, 16 years and over</b> .....	7.8	7.9	7.8	7.9	8.0	7.8	7.3	7.5	7.3	7.0	6.9	7.1	6.9
16 to 19 years .....	18.2	19.6	18.8	19.0	19.2	19.0	18.7	18.5	18.8	17.8	17.9	18.6	17.4
16 to 17 years .....	20.8	22.1	20.6	21.3	21.6	20.7	21.1	19.8	22.2	19.2	20.4	21.3	19.9
18 to 19 years .....	15.9	18.0	17.5	17.5	17.6	17.7	17.0	17.5	16.6	16.8	16.3	16.5	15.3
20 to 24 years .....	11.4	11.9	11.7	12.6	12.7	12.5	11.4	12.0	11.4	10.8	10.7	10.5	10.6
25 years and over .....	5.9	5.6	5.8	5.7	5.6	5.5	5.1	5.2	5.1	4.9	4.8	5.0	5.0
25 to 54 years .....	6.0	5.9	5.9	6.0	5.9	5.9	5.3	5.3	5.2	5.1	5.1	5.3	5.2
55 years and over .....	4.9	4.8	4.8	4.6	4.6	4.2	4.1	4.8	4.3	4.1	4.0	3.8	3.9
<b>Males, 16 years and over</b> .....	7.1	7.0	7.2	7.4	7.5	7.3	6.6	6.9	6.5	6.1	6.3	6.2	6.2
16 to 19 years .....	18.3	18.7	19.1	19.6	19.7	19.1	17.4	18.6	18.7	17.0	17.0	18.6	16.9
16 to 17 years .....	20.8	21.5	21.3	22.3	22.2	21.0	19.5	19.3	22.2	17.9	18.7	22.7	20.2
18 to 19 years .....	16.6	16.8	17.3	17.7	18.1	17.4	16.1	17.9	16.1	16.0	16.0	15.5	14.7
20 to 24 years .....	12.0	11.8	11.7	12.7	12.6	12.9	11.3	12.1	11.2	10.5	10.6	9.9	10.6
25 years and over .....	5.1	5.0	5.2	5.1	5.2	5.0	4.6	4.6	4.3	4.1	4.2	4.1	4.2
25 to 54 years .....	5.2	5.1	5.2	5.3	5.4	5.2	4.7	4.6	4.3	4.3	4.4	4.3	4.3
55 years and over .....	4.2	4.6	4.6	4.4	4.4	3.9	4.0	4.7	4.4	3.7	3.9	3.3	3.6
<b>Females, 16 years and over</b> .....	8.8	9.1	8.8	8.8	8.7	8.6	8.3	8.4	8.5	8.2	7.9	8.4	8.0
16 to 19 years .....	18.0	20.6	18.4	18.3	18.5	18.9	20.1	18.4	18.9	18.8	19.0	18.7	17.9
16 to 17 years .....	20.8	22.9	19.8	20.1	20.8	20.2	23.0	20.4	22.2	20.8	22.5	19.7	19.5
18 to 19 years .....	15.2	19.4	17.6	17.3	17.1	18.0	18.1	16.9	17.1	17.7	16.6	17.5	16.0
20 to 24 years .....	10.6	11.9	11.8	12.4	12.8	11.9	11.4	11.9	11.7	11.2	10.9	11.0	10.5
25 years and over .....	7.1	6.7	6.7	6.6	6.4	6.4	5.9	6.1	6.1	6.0	5.7	6.3	6.2
25 to 54 years .....	7.2	7.1	7.1	7.1	6.7	6.9	6.2	6.3	6.6	6.5	6.1	6.7	6.4
55 years and over .....	5.9	5.2	5.2	4.9	5.1	4.7	4.3	4.9	4.2	4.6	4.3	4.6	4.4

**A-39. Unemployed persons by reason for unemployment, seasonally adjusted**

[Numbers in thousands]

Reason for unemployment	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	3,758	3,790	3,727	3,756	3,802	3,736	3,207	3,396	3,143	2,953	3,038	2,927	3,075
On layoff .....	1,142	1,191	1,222	1,107	1,067	1,057	791	1,001	865	754	749	827	919
Other job losers .....	2,616	2,599	2,505	2,649	2,735	2,679	2,416	2,395	2,278	2,199	2,289	2,100	2,156
Job leavers .....	957	994	934	936	858	831	932	852	919	846	944	954	841
Reentrants .....	1,879	1,941	1,912	1,927	2,061	1,957	1,991	1,963	2,013	2,001	1,993	1,889	1,822
New entrants .....	794	955	926	894	920	942	905	936	1,003	972	893	1,077	974
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	50.9	49.3	49.7	50.0	49.8	50.0	45.6	47.5	44.4	43.6	44.2	42.7	45.8
On layoff .....	15.5	15.5	16.3	14.7	14.0	14.2	11.2	14.0	12.2	11.1	10.9	12.1	13.7
Other job losers .....	35.4	33.8	33.4	35.3	35.8	35.9	34.3	33.5	32.2	32.5	33.2	30.7	32.1
Job leavers .....	13.0	12.9	12.5	12.5	11.2	11.1	13.2	11.9	13.0	12.5	13.7	13.9	12.5
Reentrants .....	25.4	25.3	25.5	25.6	27.0	26.2	28.3	27.5	28.4	29.5	29.0	27.6	27.1
New entrants .....	10.7	12.4	12.3	11.9	12.0	12.6	12.9	13.1	14.2	14.4	13.0	15.7	14.5
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.9	4.0	3.9	3.9	4.0	3.9	3.4	3.5	3.3	3.1	3.1	3.0	3.2
Job leavers .....	1.0	1.0	1.0	1.0	.9	.9	1.0	.9	1.0	.9	1.0	1.0	.9
Reentrants .....	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.0	2.1	2.1	2.1	1.9	1.9
New entrants .....	.8	1.0	1.0	.9	1.0	1.0	.9	1.0	1.0	1.0	.9	1.1	1.0

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**

**A-40. Employed persons by sex and age, seasonally adjusted**

[In thousands]

Sex and age	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>Total, 16 years and over</b> .....	87,783	87,834	87,794	87,738	88,220	88,441	88,558	88,962	89,475	90,023	90,408	90,679	90,561
16 to 19 years .....	7,386	7,313	7,187	7,243	7,239	7,242	7,266	7,394	7,458	7,573	7,589	7,704	7,555
16 to 17 years .....	2,994	2,970	2,916	2,861	2,882	2,914	2,906	3,017	2,972	3,092	3,044	3,056	3,029
18 to 19 years .....	4,386	4,346	4,319	4,380	4,356	4,332	4,396	4,402	4,461	4,527	4,499	4,605	4,507
20 to 24 years .....	12,457	12,301	12,321	12,279	12,378	12,459	12,598	12,634	12,706	12,710	12,758	12,986	12,901
25 years and over .....	67,911	68,140	68,317	68,257	68,533	68,762	68,759	68,980	69,336	69,744	70,082	70,014	70,033
25 to 54 years .....	54,502	54,682	54,751	54,688	54,873	55,059	55,239	55,511	55,787	56,010	56,233	56,356	56,456
55 years and over .....	13,410	13,506	13,566	13,599	13,644	13,702	13,564	13,538	13,530	13,698	13,780	13,671	13,602
<b>Males, 16 years and over</b> .....	52,507	52,596	52,546	52,576	52,643	52,799	52,918	53,046	53,270	53,575	53,722	53,987	53,900
16 to 19 years .....	3,963	3,958	3,845	3,892	3,870	3,940	3,957	3,955	4,003	4,110	4,191	4,128	4,106
16 to 17 years .....	1,641	1,652	1,587	1,588	1,577	1,622	1,588	1,617	1,613	1,714	1,734	1,640	1,674
18 to 19 years .....	2,316	2,308	2,298	2,301	2,289	2,316	2,381	2,358	2,384	2,433	2,481	2,451	2,420
20 to 24 years .....	6,766	6,726	6,778	6,787	6,832	6,879	6,975	6,951	6,988	6,958	6,929	7,069	7,036
25 years and over .....	41,743	41,828	41,955	41,922	41,931	42,016	41,993	42,160	42,298	42,500	42,639	42,809	42,687
25 to 54 years .....	33,337	33,392	33,468	33,505	33,478	33,529	33,594	33,799	33,908	34,029	34,070	34,190	34,123
55 years and over .....	8,402	8,442	8,464	8,461	8,460	8,500	8,449	8,384	8,395	8,461	8,543	8,592	8,558
<b>Females, 16 years and over</b> .....	35,276	35,238	35,248	35,162	35,577	35,642	35,640	35,916	36,205	36,448	36,686	36,692	36,661
16 to 19 years .....	3,423	3,355	3,342	3,351	3,369	3,302	3,309	3,439	3,455	3,463	3,398	3,576	3,449
16 to 17 years .....	1,353	1,318	1,329	1,273	1,305	1,292	1,318	1,400	1,359	1,378	1,310	1,416	1,355
18 to 19 years .....	2,070	2,038	2,021	2,079	2,067	2,016	2,015	2,044	2,077	2,094	2,081	2,154	2,087
20 to 24 years .....	5,691	5,575	5,543	5,492	5,546	5,580	5,623	5,683	5,718	5,752	5,829	5,917	5,865
25 years and over .....	26,168	26,312	26,362	26,335	26,602	26,746	26,766	26,820	27,038	27,244	27,443	27,205	27,346
25 to 54 years .....	21,165	21,290	21,283	21,183	21,395	21,530	21,645	21,712	21,879	21,981	22,163	22,166	22,333
55 years and over .....	5,008	5,064	5,102	5,138	5,184	5,202	5,115	5,154	5,135	5,237	5,237	5,079	5,044

**A-41. Unemployed persons by sex and age, seasonally adjusted**

[In thousands]

Sex and age	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>Total, 16 years and over</b> .....	7,406	7,517	7,448	7,564	7,651	7,519	6,958	7,183	7,064	6,737	6,750	6,962	6,744
16 to 19 years .....	1,641	1,778	1,664	1,703	1,718	1,702	1,668	1,677	1,725	1,643	1,653	1,765	1,589
16 to 17 years .....	786	843	758	776	792	760	777	746	847	736	779	829	752
18 to 19 years .....	832	956	913	930	930	930	901	931	886	916	873	907	815
20 to 24 years .....	1,598	1,657	1,639	1,767	1,802	1,779	1,617	1,722	1,638	1,545	1,533	1,516	1,522
25 years and over .....	4,229	4,075	4,180	4,106	4,102	4,027	3,681	3,766	3,689	3,580	3,565	3,667	3,679
25 to 54 years .....	3,495	3,438	3,448	3,470	3,438	3,449	3,090	3,088	3,086	3,039	3,006	3,137	3,076
55 years and over .....	685	688	688	652	664	608	583	679	608	579	580	533	552
<b>Males, 16 years and over</b> .....	4,020	3,968	4,060	4,178	4,244	4,152	3,714	3,904	3,712	3,466	3,609	3,580	3,538
16 to 19 years .....	889	908	910	950	951	933	833	903	918	842	858	942	838
16 to 17 years .....	430	452	429	455	449	432	384	387	459	374	399	481	424
18 to 19 years .....	461	467	481	496	505	487	457	515	459	465	459	449	417
20 to 24 years .....	921	903	899	990	987	1,022	892	958	879	819	823	781	833
25 years and over .....	2,221	2,189	2,282	2,236	2,281	2,194	2,002	2,034	1,919	1,835	1,892	1,843	1,874
25 to 54 years .....	1,847	1,813	1,830	1,862	1,902	1,853	1,656	1,616	1,534	1,517	1,563	1,548	1,551
55 years and over .....	372	408	410	385	387	349	354	414	385	328	343	289	319
<b>Females, 16 years and over</b> .....	3,386	3,549	3,388	3,386	3,407	3,367	3,244	3,279	3,352	3,271	3,141	3,382	3,206
16 to 19 years .....	752	870	754	753	767	769	835	774	807	801	795	823	751
16 to 17 years .....	356	391	329	321	343	328	393	359	388	362	380	348	328
18 to 19 years .....	371	489	432	434	425	443	444	416	427	451	414	458	398
20 to 24 years .....	677	754	740	777	815	757	725	764	759	726	710	735	689
25 years and over .....	2,008	1,886	1,898	1,870	1,821	1,833	1,679	1,732	1,770	1,745	1,673	1,824	1,805
25 to 54 years .....	1,648	1,625	1,618	1,608	1,536	1,596	1,434	1,472	1,552	1,522	1,443	1,589	1,525
55 years and over .....	313	280	278	267	277	259	229	265	223	251	237	244	233



# HOUSEHOLD DATA SEASONALLY ADJUSTED

## A-42. Employed persons by selected social and economic categories, seasonally adjusted

[In thousands]

Selected categories	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total employed	87,783	87,834	87,794	87,738	88,220	88,441	88,588	88,962	89,475	90,023	90,408	90,679	90,561
Household heads	51,038	51,120	51,185	51,159	51,356	51,525	51,710	51,729	51,970	52,230	52,314	52,437	52,295
Married men, spouse present	38,146	38,179	38,140	37,989	37,895	37,998	38,195	38,159	38,294	38,536	38,509	38,582	38,434
Married women, spouse present	20,353	20,402	20,470	20,384	20,482	20,498	20,511	20,756	20,963	21,076	20,962	20,831	20,846
<b>Occupation</b>													
White-collar workers	43,503	43,731	44,023	44,207	44,297	44,648	44,521	44,451	44,495	44,851	44,766	44,798	45,105
Professional and technical	13,291	13,471	13,581	13,427	13,597	13,544	13,444	13,408	13,439	13,591	13,483	13,638	13,863
Managers and administrators, except farm	9,226	9,309	9,446	9,436	9,491	9,564	9,613	9,502	9,543	9,434	9,400	9,570	9,583
Sales workers	5,442	5,504	5,555	5,551	5,597	5,815	5,633	5,815	5,617	5,765	5,695	5,673	5,716
Clerical workers	15,544	15,447	15,441	15,793	15,612	15,725	15,831	15,726	15,896	16,061	16,188	15,917	15,943
Blue-collar workers	29,100	28,912	28,745	28,921	29,001	29,150	29,634	29,917	30,025	30,193	30,423	30,432	30,063
Craft and kindred workers	11,329	11,286	11,340	11,352	11,353	11,302	11,626	11,668	11,709	11,896	11,894	11,891	11,887
Operatives, except transport	10,131	10,015	9,820	9,885	9,970	10,231	10,341	10,341	10,574	10,394	10,530	10,378	10,270
Transport equipment operatives	3,275	3,266	3,275	3,297	3,258	3,283	3,358	3,448	3,487	3,482	3,552	3,551	3,397
Nonfarm laborers	4,365	4,345	4,310	4,387	4,420	4,334	4,309	4,450	4,255	4,421	4,447	4,612	4,509
Service workers	12,178	12,265	12,165	11,972	12,026	11,880	11,874	12,017	12,272	12,254	12,372	12,697	12,460
Farm workers	2,861	2,913	2,772	2,829	2,743	2,791	2,624	2,663	2,652	2,779	2,904	2,838	2,743
<b>Major industry and class of worker</b>													
Agriculture:													
Wage and salary workers	1,306	1,339	1,309	1,310	1,285	1,380	1,246	1,280	1,282	1,310	1,325	1,381	1,271
Self-employed workers	1,686	1,700	1,608	1,671	1,627	1,530	1,490	1,511	1,513	1,548	1,655	1,595	1,561
Unpaid family workers	336	352	344	343	342	340	354	338	319	366	393	378	363
Nonagricultural industries:													
Wage and salary workers	78,250	78,423	78,440	78,498	78,766	78,957	79,205	79,520	79,869	80,306	80,429	80,814	80,738
Private households	1,433	1,384	1,400	1,377	1,448	1,384	1,391	1,317	1,313	1,320	1,305	1,388	1,445
Government	14,942	15,262	15,143	14,998	15,045	14,967	15,013	14,913	14,923	14,960	15,075	14,961	15,131
Other	61,875	61,777	61,897	62,123	62,273	62,606	62,801	63,290	63,633	64,026	64,049	64,465	64,162
Self-employed workers	5,640	5,661	5,701	5,632	5,771	5,798	5,853	5,854	5,919	5,954	6,050	5,997	5,896
Unpaid family workers	447	444	433	448	449	460	419	516	536	499	550	518	523
<b>Persons at work<sup>1</sup></b>													
Nonagricultural industries	79,257	78,991	79,796	79,469	79,940	80,369	79,832	80,837	81,330	81,005	81,771	81,618	82,572
Full-time schedules	65,261	64,687	64,965	64,955	65,385	65,846	65,700	66,144	66,659	66,436	67,219	67,126	67,867
Part time for economic reasons	3,136	3,178	3,376	3,448	3,545	3,454	3,320	3,438	3,276	3,174	3,290	3,368	3,371
Usually work full time	1,311	1,350	1,378	1,339	1,289	1,234	1,112	1,335	1,212	1,167	1,314	1,341	1,440
Usually work part time	1,825	1,828	1,998	2,109	2,256	2,220	2,208	2,103	2,064	2,007	1,976	2,027	1,931
Part time for noneconomic reasons	10,860c	11,126c	11,455c	11,066c	11,010c	11,069c	10,812c	11,255c	11,395c	11,395c	11,262c	11,124	11,334

<sup>1</sup> Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

c = corrected.

## A-43. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years of age

[Numbers in thousands]

Employment status	Not seasonally adjusted			Seasonally adjusted					
	July 1976	June 1977	July 1977	July 1976	Mar. 1977	Apr. 1977	May 1977	June 1977	July 1977
<b>VETERANS<sup>1</sup></b>									
Total, 20 to 34 years:									
Civilian noninstitutional population <sup>2</sup>	6,691	6,819	6,817	6,691	6,857	6,861	6,865	6,819	6,817
Civilian labor force	6,361	6,532	6,541	6,337	6,486	6,501	6,508	6,500	6,517
Employed	5,873	6,046	6,067	5,808	6,045	6,027	6,019	6,004	6,000
Unemployed	488	486	474	529	441	474	489	496	517
Unemployment rate	7.7	7.4	7.2	8.3	6.8	7.3	7.5	7.6	7.9
<b>20 to 24 years</b>									
Civilian noninstitutional population <sup>2</sup>	1,073	1,058	1,050	1,073	1,080	1,077	1,073	1,058	1,050
Civilian labor force	953	953	953	947	949	956	921	937	942
Employed	779	785	814	754	787	818	796	767	788
Unemployed	174	168	139	193	162	138	125	170	154
Unemployment rate	18.3	17.6	14.6	20.4	17.1	14.4	13.6	18.1	16.3
<b>25 to 29 years</b>									
Civilian noninstitutional population <sup>2</sup>	3,275	3,062	3,028	3,275	3,077	3,044	3,012	3,062	3,028
Civilian labor force	3,112	2,936	2,916	3,089	2,906	2,893	2,872	2,923	2,895
Employed	2,902	2,729	2,709	2,879	2,713	2,671	2,647	2,715	2,688
Unemployed	210	207	207	210	193	222	225	208	207
Unemployment rate	6.7	7.1	7.1	6.8	6.6	7.7	7.8	7.1	7.2
<b>30 to 34 years</b>									
Civilian noninstitutional population <sup>2</sup>	2,343	2,699	2,739	2,343	2,700	2,740	2,780	2,699	2,739
Civilian labor force	2,296	2,643	2,672	2,301	2,631	2,652	2,715	2,640	2,680
Employed	2,192	2,532	2,544	2,175	2,545	2,538	2,576	2,522	2,524
Unemployed	104	111	128	126	86	114	139	118	156
Unemployment rate	4.5	4.2	4.8	5.5	3.3	4.3	5.1	4.5	5.8
<b>NONVETERANS</b>									
Total, 20 to 34 years:									
Civilian noninstitutional population <sup>2</sup>	16,783	17,556	17,640	16,783	17,264	17,347	17,432	17,556	17,640
Civilian labor force	15,648	16,294	16,431	15,159	15,717	16,645	15,646	15,870	15,917
Employed	14,369	15,132	15,265	13,836	14,483	15,510	14,527	14,780	14,713
Unemployed	1,279	1,162	1,166	1,323	1,234	1,135	1,119	1,090	1,204
Unemployment rate	8.2	7.1	7.1	8.7	7.9	6.8	7.2	6.9	7.6
<b>20 to 24 years</b>									
Civilian noninstitutional population <sup>2</sup>	7,931	8,133	8,158	7,931	8,056	8,080	8,104	8,133	8,158
Civilian labor force	7,236	7,327	7,428	6,726	6,932	6,850	6,831	6,909	6,902
Employed	6,492	6,614	6,738	5,992	6,211	6,161	6,135	6,293	6,222
Unemployed	744	713	690	734	721	689	696	616	680
Unemployment rate	10.3	9.7	9.3	10.9	10.4	10.1	10.2	8.9	9.9
<b>25 to 29 years</b>									
Civilian noninstitutional population <sup>2</sup>	5,097	5,276	5,307	5,097	5,268	5,298	5,328	5,276	5,307
Civilian labor force	4,819	5,017	5,009	4,834	5,029	4,977	4,990	5,006	5,015
Employed	4,455	4,712	4,702	4,430	4,676	4,691	4,722	4,689	4,674
Unemployed	364	305	307	404	353	286	268	317	341
Unemployment rate	7.6	6.1	6.1	8.4	7.0	5.7	5.4	6.3	6.8
<b>30 to 34 years</b>									
Civilian noninstitutional population <sup>2</sup>	3,755	4,147	4,175	3,755	3,940	3,969	4,000	4,147	4,175
Civilian labor force	3,593	3,950	3,994	3,599	3,756	3,818	3,825	3,955	4,000
Employed	3,422	3,806	3,825	3,414	3,596	3,658	3,670	3,798	3,817
Unemployed	171	144	169	185	160	160	155	157	183
Unemployment rate	4.8	3.6	4.2	5.1	4.3	4.2	4.1	4.0	4.6

<sup>1</sup> Vietnam-era veterans are those who served between August 5, 1964, and May 7, 1975.<sup>2</sup> Since seasonal variations are not present in the population figures, identical numbers appear in the unadjusted and seasonally adjusted columns.

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

**B-1. Employees on nonagricultural payrolls, by industry division 1919 to date**

(In thousands)

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Contract construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1919.....	27,088	12,813	1,133	1,021	10,659	14,275	3,711	4,514	-	-	1,111	2,263	2,676	-	-
1920.....	27,350	12,745	1,239	848	10,658	14,605	3,998	4,467	-	-	1,175	2,362	2,603	-	-
1925.....	28,778	12,474	1,089	1,446	9,939	16,304	3,826	5,576	-	-	1,233	2,869	2,800	-	-
1926.....	29,819	12,896	1,185	1,555	10,156	16,923	3,942	5,784	-	-	1,305	3,046	2,846	-	-
1927.....	29,976	12,723	1,114	1,608	10,001	17,253	3,895	5,908	-	-	1,367	3,168	2,915	-	-
1928.....	30,000	12,603	1,050	1,606	9,947	17,397	3,828	5,874	-	-	1,435	3,265	2,995	-	-
1929.....	31,339	13,286	1,087	1,497	10,702	18,053	3,916	6,123	-	-	1,509	3,440	3,065	533	2,532
1930.....	29,424	11,943	1,009	1,372	9,562	17,481	3,685	5,797	-	-	1,475	3,376	3,148	526	2,622
1931.....	26,649	10,257	873	1,214	8,170	16,392	3,254	5,284	-	-	1,407	3,183	3,264	560	2,704
1932.....	23,628	8,632	731	970	6,931	14,996	2,816	4,683	-	-	1,341	2,931	3,225	559	2,666
1933.....	23,711	8,950	744	809	7,397	14,761	2,672	4,755	-	-	1,295	2,873	3,166	565	2,601
1934.....	25,953	10,246	883	862	8,501	15,707	2,750	5,281	-	-	1,319	3,058	3,299	652	2,647
1935.....	27,053	10,878	897	912	9,069	16,175	2,786	5,431	-	-	1,335	3,142	3,481	753	2,728
1936.....	29,082	11,918	946	1,145	9,827	17,164	2,973	5,809	-	-	1,388	3,326	3,668	826	2,842
1937.....	31,026	12,921	1,015	1,112	10,794	18,105	3,134	6,265	-	-	1,432	3,518	3,756	833	2,923
1938.....	29,209	11,386	891	1,055	9,440	17,823	2,863	6,179	-	-	1,425	3,473	3,883	829	3,054
1939.....	30,618	12,282	854	1,150	10,278	18,336	2,936	6,426	1,684	4,742	1,462	3,517	3,995	905	3,090
1940.....	32,376	13,204	925	1,294	10,985	19,173	3,038	6,750	1,754	4,996	1,502	3,681	4,202	996	3,206
1941.....	36,554	15,939	957	1,790	13,192	20,614	3,274	7,210	1,873	5,338	1,549	3,921	4,660	1,340	3,320
1942.....	40,125	18,442	992	2,170	15,280	21,683	3,460	7,118	1,821	5,297	1,538	4,084	5,483	2,213	3,270
1943.....	42,452	20,094	925	1,567	17,602	22,359	3,647	6,982	1,741	5,241	1,502	4,148	6,080	2,905	3,174
1944.....	41,883	19,314	892	1,094	17,328	22,569	3,829	7,058	1,762	5,296	1,476	4,163	6,043	2,928	3,116
1945.....	40,394	17,492	836	1,132	15,524	22,902	3,906	7,314	1,862	5,452	1,497	4,241	5,944	2,808	3,137
1946.....	41,674	17,226	862	1,661	14,703	24,448	4,061	8,376	2,190	6,186	1,697	4,719	5,595	2,254	3,341
1947.....	43,881	18,482	955	1,982	15,545	25,399	4,166	8,955	2,361	6,595	1,754	5,050	5,474	1,892	3,582
1948.....	44,891	18,745	994	2,169	15,582	26,146	4,189	9,272	2,489	6,783	1,829	5,206	5,650	1,863	3,787
1949.....	43,778	17,536	930	2,165	14,441	26,242	4,001	9,264	2,487	6,778	1,857	5,264	5,856	1,908	3,948
1950.....	45,222	18,475	901	2,333	15,241	26,747	4,034	9,386	2,518	6,868	1,919	5,382	6,026	1,928	4,098
1951.....	47,849	19,925	929	2,603	16,393	27,924	4,226	9,742	2,606	7,136	1,991	5,576	6,389	2,302	4,087
1952.....	48,825	20,164	898	2,634	16,632	28,660	4,248	10,004	2,687	7,317	2,069	5,730	6,609	2,420	4,188
1953.....	50,232	21,038	866	2,623	17,549	29,195	4,290	10,247	2,727	7,520	2,146	5,867	6,645	2,305	4,340
1954.....	49,022	19,717	791	2,612	16,314	29,306	4,084	10,235	2,739	7,496	2,234	6,002	6,751	2,188	4,563
1955.....	50,675	20,476	792	2,802	16,882	30,199	4,141	10,535	2,796	7,740	2,335	6,274	6,914	2,187	4,727
1956.....	52,408	21,064	822	2,999	17,243	31,344	4,244	10,858	2,884	7,974	2,429	6,536	7,277	2,209	5,069
1957.....	52,894	20,925	828	2,923	17,174	31,969	4,241	10,886	2,893	7,992	2,477	6,749	7,616	2,217	5,399
1958.....	51,363	19,474	751	2,778	15,945	31,890	3,976	10,750	2,848	7,902	2,519	6,806	7,839	2,191	5,648
1959.....	53,313	20,367	732	2,960	16,675	32,945	4,011	11,127	2,946	8,182	2,594	7,130	8,083	2,233	5,850
1960.....	54,234	20,393	712	2,885	16,796	33,840	4,004	11,391	3,004	8,388	2,669	7,423	8,353	2,270	6,083
1961.....	54,042	19,814	672	2,816	16,326	34,229	3,903	11,337	2,993	8,344	2,731	7,664	8,594	2,279	6,315
1962.....	55,596	20,405	650	2,902	16,853	35,190	3,906	11,566	3,056	8,511	2,800	8,028	8,890	2,340	6,550
1963.....	56,702	20,593	635	2,963	16,995	36,108	3,903	11,778	3,104	8,675	2,877	8,325	9,225	2,358	6,868
1964.....	58,331	20,958	634	3,050	17,274	37,373	3,951	12,160	3,189	8,971	2,957	8,709	9,596	2,348	7,248
1965.....	60,815	21,880	632	3,186	18,062	38,936	4,036	12,716	3,312	9,404	3,023	9,087	10,074	2,378	7,696
1966.....	63,955	23,116	627	3,275	19,214	40,839	4,151	13,245	3,437	9,808	3,100	9,551	10,792	2,564	8,227
1967.....	65,857	23,268	613	3,208	19,447	42,589	4,261	13,606	3,525	10,081	3,225	10,099	11,398	2,719	8,679
1968.....	67,951	23,693	606	3,306	19,781	44,258	4,311	14,099	3,611	10,488	3,381	10,622	11,845	2,737	9,109
1969.....	70,442	24,311	619	3,525	20,167	46,130	4,435	14,704	3,733	10,971	3,562	11,228	12,202	2,758	9,444
1970.....	70,920	23,507	623	3,536	19,349	47,412	4,504	15,040	3,816	11,225	3,687	11,621	12,561	2,731	9,830
1971.....	71,222	22,820	609	3,639	18,572	48,401	4,457	15,352	3,823	11,529	3,802	11,903	12,887	2,696	10,192
1972.....	73,714	23,546	625	3,831	19,090	50,167	4,517	15,975	3,943	12,032	3,943	12,392	13,340	2,684	10,656
1973.....	76,896	24,727	644	4,015	20,068	52,169	4,644	16,674	4,107	12,568	4,091	13,021	13,739	2,663	11,075
1974.....	78,413	24,697	694	3,957	20,046	53,715	4,696	17,017	4,223	12,794	4,208	13,617	14,177	2,724	11,453
1975.....	77,051	22,603	745	3,512	18,347	54,448	4,498	17,000	4,177	12,824	4,223	14,006	14,720	2,748	11,973
1976.....	79,443	23,332	783	3,594	18,956	56,111	4,509	17,694	4,263	13,431	4,316	14,644	14,948	2,733	12,215
July.....	79,242	23,446	804	3,821	18,821	55,796	4,540	17,723	4,297	13,426	4,368	14,825	14,340	2,775	11,565
Aug.....	79,555	23,806	766	3,869	19,171	55,749	4,528	17,754	4,302	13,452	4,368	14,869	14,230	2,754	11,476
Sept.....	80,277	24,027	804	3,815	19,408	56,250	4,560	17,870	4,300	13,570	4,347	14,813	14,660	2,717	11,943
Oct.....	80,572	23,804	804	3,815	19,185	56,768	4,538	17,922	4,322	13,600	4,355	14,849	15,104	2,711	12,393
Nov.....	80,943	23,781	807	3,742	19,232	57,162	4,546	18,122	4,321	13,801	4,368	14,858	15,268	2,720	12,548
Dec.....	81,099	23,480	805	3,547	19,128	57,619	4,553	18,559	4,326	14,233	4,385	14,861	15,261	2,725	12,536
1977:															
Jan.....	79,473	23,005	806	3,198	19,001	56,468	4,499	17,791	4,297	13,494	4,379	14,740	15,059	2,697	12,362
Feb.....	79,734	23,063	807	3,251	19,005	56,671	4,494	17,653	4,291	13,362	4,391	14,887	15,246	2,705	12,541
Mar.....	80,547	23,461	827	3,451	19,183	57,086	4,522	17,799	4,310	13,489	4,422	15,028	15,315	2,714	12,601
Apr.....	81,332	23,846	838	3,681	19,327	57,486	4,538	18,026	4,332	13,694	4,450	15,182	15,290	2,716	12,574
May.....	82,029	24,167	844	3,853	19,470	57,862	4,577	18,176	4,353	13,823	4,476	15,288	15,345	2,728	12,617
JuneP.....	82,903	24,676	870	4,048	19,758	58,227	4,626	18,322	4,399	13,923	4,533	15,454	15,292	2,765	12,527
JulyP.....	82,159	24,585	835	4,144	19,606	57,574	4,615	18,297	4,412	13,885	4,565	15,473	14,624	2,782	11,842

p = preliminary.

NOTE: Data include Alaska and Hawaii beginning 1959. This inclusion has resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2. Employees on nonagricultural payrolls, by industry**

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
	<b>TOTAL</b> .....	80,142	79,242	82,029	82,903	82,159	-	-	-	-	-
	<b>PRIVATE SECTOR</b> .....	65,109	64,902	66,684	67,611	67,535	53,637	53,397	54,787	55,563	55,444
	<b>MINING</b> .....	795	804	844	870	835	604	609	636	658	623
	<b>METAL MINING</b> .....	94.0	96.2	97.2	99.2	-	72.7	73.8	75.0	76.5	-
10	Iron ores .....	26.3	26.5	26.1	26.8	-	21.4	21.4	21.0	21.6	-
101	Copper ores .....	35.2	36.6	36.7	37.2	-	26.8	27.3	28.2	28.7	-
102											
11,12	<b>COAL MINING</b> .....	219.6	219.5	230.1	236.9	-	188.3	187.7	190.0	197.4	-
12	Bituminous coal and lignite mining .....	215.7	215.5	226.1	232.8	-	184.9	184.3	186.5	193.8	-
	<b>OIL AND GAS EXTRACTION</b> .....	361.2	367.6	395.9	409.2	-	248.0	251.2	274.8	285.1	-
13	Crude petroleum and natural gas fields .....	168.1	170.5	172.0	176.3	-	86.2	86.0	85.5	87.5	-
131,2											
138	Oil and gas field services .....	193.1	197.1	223.9	232.9	-	161.8	165.2	189.3	197.6	-
	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	119.8	120.6	121.2	124.4	-	95.2	96.2	96.3	99.3	-
14	Crushed and broken stone .....	42.1	42.4	42.7	43.8	-	34.7	35.1	35.6	36.5	-
142											
144	Sand and gravel .....	37.0	37.5	37.8	39.2	-	-	-	-	-	-
	<b>CONTRACT CONSTRUCTION</b> .....	3,750	3,821	3,853	4,048	4,144	2,989	3,063	3,067	3,246	3,338
	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,117.3	1,134.5	1,141.1	1,200.0	-	876.1	893.3	900.7	956.1	-
15											
	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	793.0	809.2	805.9	861.2	-	658.7	675.0	656.1	707.8	-
16	Highway and street construction .....	349.6	357.5	361.6	396.4	-	302.2	310.1	303.9	336.3	-
161											
162	Heavy construction, nec .....	443.4	451.7	444.3	464.8	-	356.5	364.9	352.2	371.5	-
	<b>SPECIAL TRADE CONTRACTORS</b> .....	1,840.1	1,877.3	1,906.0	1,986.3	-	1,454.0	1,494.8	1,510.0	1,582.4	-
17	Plumbing, heating, air conditioning .....	428.2	438.5	445.6	458.5	-	322.0	331.6	335.9	346.5	-
171											
172	Painting, paper hanging, decorating .....	136.6	141.8	144.6	158.7	-	116.9	121.5	120.5	132.3	-
173	Electrical work .....	325.9	326.1	325.1	332.8	-	255.6	256.5	253.4	260.5	-
174	Masonry, stonework, and plastering .....	198.2	201.8	222.9	233.2	-	172.0	175.6	191.5	201.4	-
176	Roofing and sheet metal work .....	126.8	133.6	137.1	141.4	-	101.6	108.5	110.4	114.3	-
	<b>MANUFACTURING</b> .....	19,117	18,821	19,470	19,758	19,606	13,774	13,470	14,021	14,259	14,089
	<b>DURABLE GOODS</b> .....	11,162	10,958	11,442	11,597	11,492	7,994	7,787	8,207	8,336	8,226
19,24,25, 32-39											
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	7,955	7,863	8,028	8,161	8,114	5,780	5,683	5,814	5,923	5,863
	<b>DURABLE GOODS</b>										
	<b>ORDNANCE AND ACCESSORIES</b> .....	157.5	156.8	155.2	156.5	153.5	71.1	70.4	71.4	71.9	72.0
19	Ammunition, except for small arms .....	101.6	101.0	99.3	99.8	97.7	35.3	34.8	36.1	35.6	36.0
192	Complete guided missiles .....	84.2	83.8	81.3	81.4	-	22.8	22.6	23.0	22.2	-
1925											
1929	Ammunition, exc. for small arms, nec .....	17.4	17.2	18.0	18.4	-	12.5	12.2	13.1	13.4	-
	<b>LUMBER AND WOOD PRODUCTS</b> .....	622.8	623.4	637.0	661.4	663.0	523.7	524.4	542.8	566.1	566.8
24	Logging camps and logging contractors .....	78.1	79.4	71.9	77.8	78.9	-	-	-	-	-
241											
242	Sawmills and planing mills .....	214.5	216.9	216.5	223.3	222.0	190.2	192.8	192.8	199.3	198.7
2421	Sawmills and planing mills, general .....	182.5	186.0	184.0	189.8	-	161.7	165.2	163.9	169.5	-
2421											
243	Millwork, plywood and related products .....	209.0	209.1	223.2	232.4	234.7	173.6	173.5	186.6	195.2	197.0
243	Millwork .....	94.1	94.7	100.6	104.4	-	77.6	78.1	82.5	86.0	-
2431											
2432	Veneer and plywood .....	75.0	74.5	76.9	78.7	-	66.8	66.2	68.7	70.4	-
244	Wooden containers .....	23.1	22.1	21.8	22.4	22.3	20.5	19.6	19.3	19.9	19.7
2441,2	Wooden boxes, shooks, and crates .....	18.6	18.1	17.6	18.2	-	16.4	16.1	15.7	16.3	-
249	Miscellaneous wood products .....	98.1	95.9	103.6	105.5	105.1	79.1	77.1	85.5	87.5	86.6

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2. Employees on nonagricultural payrolls, by industry—Continued**

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
25	<b>FURNITURE AND FIXTURES</b> .....	493.8	478.4	504.1	511.1	502.9	405.7	390.6	414.8	421.6	412.8
251	Household furniture .....	355.5	344.0	365.7	369.5	361.8	300.8	289.6	309.8	313.2	304.9
2511	Wood household furniture .....	182.3	177.5	186.8	190.0	—	159.5	154.7	163.7	166.9	—
2512	Upholstered household furniture .....	103.9	99.6	105.1	106.6	—	86.3	82.3	86.5	87.7	—
2515	Mattresses and bedspings .....	33.7	33.3	33.0	33.5	—	25.8	25.4	25.6	25.9	—
252	Office furniture .....	38.0	34.2	41.5	42.4	—	30.0	26.6	33.9	34.5	—
254	Partitions and fixtures .....	53.6	53.7	53.2	54.7	—	40.3	40.1	39.4	41.0	—
253,9	Other furniture and fixtures .....	46.7	46.5	43.7	44.5	44.0	34.6	34.3	31.7	32.9	32.2
<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....											
32	Flat glass .....	640.8	641.8	655.7	671.5	675.4	512.1	512.6	523.5	538.3	543.0
321	Glass and glassware, pressed or blown .....	16.8	16.5	16.3	17.0	—	13.6	13.3	13.1	14.0	—
322	Glass containers .....	134.9	134.7	137.4	139.0	139.7	116.6	116.6	119.2	120.8	121.7
3221	Pressed and blown glass, nec .....	79.2	79.9	79.3	81.0	—	69.7	70.7	70.5	72.2	—
3229	Cement, hydraulic .....	329.7	329.7	329.7	329.7	329.7	246.4	246.4	246.4	246.4	24.6
324	Structural clay products .....	55.7	54.8	58.1	58.0	—	46.9	45.9	48.7	48.6	—
324	Brick and structural clay tile .....	30.7	30.7	29.8	30.6	30.9	24.4	24.5	23.5	24.4	24.6
325	Pottery and related products .....	49.3	49.4	50.7	52.1	52.0	39.8	39.7	40.8	42.1	42.1
3251	Concrete, gypsum, and plaster products .....	22.1	22.5	22.9	23.7	—	18.5	18.7	19.0	19.8	—
326	Other stone and nonmetallic mineral products .....	43.7	43.0	41.2	42.0	—	37.1	36.1	34.8	35.4	—
327	Abrasive products .....	194.9	198.4	202.4	209.7	213.4	151.8	155.1	157.7	164.4	168.1
328,9	Other stone and nonmetallic mineral products .....	134.2	133.6	138.2	140.7	140.4	101.2	100.7	105.0	107.1	106.9
3291	Other stone and nonmetallic mineral products .....	24.5	24.5	23.9	24.4	—	17.5	17.4	16.9	17.3	—
<b>PRIMARY METAL INDUSTRIES</b> .....											
33	Blast furnace and basic steel products .....	1,215.1	1,208.8	1,217.8	1,233.5	1,220.4	956.9	948.9	954.9	976.5	953.7
331	Blast furnaces and steel mills .....	557.9	565.5	556.9	564.5	567.0	438.5	444.4	435.5	441.5	443.4
3312	Iron and steel foundries .....	483.9	491.1	483.6	490.5	—	381.8	387.8	379.8	385.1	—
332	Gray iron foundries .....	221.8	215.9	219.3	223.6	(*)	182.7	176.7	179.5	183.5	(*)
3321	Malleable iron foundries .....	142.2	138.6	141.4	144.5	—	119.3	115.4	117.6	120.5	—
3322	Steel foundries .....	20.7	20.3	20.5	20.9	—	16.6	16.2	16.7	17.1	—
3323	Nonferrous metals .....	58.9	57.0	57.4	58.2	—	46.8	45.1	45.2	45.9	—
333,4	Primary aluminum .....	85.2	84.7	84.5	85.8	(*)	65.2	64.5	63.9	64.6	(*)
3334	Nonferrous rolling and drawing .....	33.0	33.3	34.4	34.8	—	26.6	26.8	27.7	28.0	—
335	Copper rolling and drawing .....	197.4	193.5	201.5	202.3	200.1	146.9	142.9	149.5	149.9	147.4
3351	Aluminum rolling and drawing .....	36.3	35.4	37.4	38.2	—	27.9	26.8	28.8	29.6	—
3352	Nonferrous wire drawing and insulating .....	61.7	61.8	64.4	64.1	—	44.9	44.9	46.5	45.9	—
3357	Nonferrous foundries .....	79.4	77.3	79.7	79.8	—	59.7	57.7	60.1	60.2	—
336	Aluminum castings .....	80.1	78.5	82.8	83.4	81.2	66.1	64.8	68.8	69.2	66.6
3361	Other nonferrous castings .....	45.1	44.4	46.3	46.3	—	37.9	37.3	39.2	39.0	—
3362,9	Miscellaneous primary metal products .....	35.0	34.1	36.5	37.1	—	28.2	27.5	29.6	30.2	—
339	Iron and steel forgings .....	72.7	70.7	72.8	73.9	(*)	57.5	55.6	57.7	58.8	(*)
3391	Iron and steel forgings .....	47.3	45.5	46.1	47.0	—	37.7	35.9	36.7	37.6	—
<b>FABRICATED METAL PRODUCTS</b> .....											
34	Metal cans .....	1,400.9	1,374.0	1,440.1	1,463.1	1,447.3	1,058.0	1,031.3	1,092.5	1,112.8	1,093.4
341	Cutlery, hand tools, and hardware .....	64.9	64.9	61.4	62.7	62.2	56.2	56.5	52.2	53.6	53.0
342	Cutlery and hand tools, including saws .....	168.3	164.6	174.8	176.7	172.3	130.1	126.6	136.6	138.5	134.0
3421,3,5	Hardware, nec .....	70.8	69.6	70.3	71.0	—	54.0	52.6	54.3	54.8	—
3429	Plumbing and heating, except electric .....	97.5	95.0	104.5	105.7	—	76.1	74.0	82.3	83.7	—
343	Sanitary ware and plumbers' brass goods .....	69.9	68.8	74.7	75.5	73.0	51.5	50.3	55.5	56.2	52.9
3431,2	Heating equipment, except electric .....	32.1	31.6	34.0	34.6	—	24.5	24.0	26.3	26.8	—
3433	Fabricated structural metal products .....	37.8	37.2	40.7	40.9	—	27.0	26.3	29.2	29.4	—
344	Fabricated structural steel .....	450.5	451.5	461.0	470.5	(*)	313.2	313.7	322.7	331.1	(*)
3441	Metal doors, sash, and trim .....	97.4	97.5	94.4	96.5	—	68.7	68.7	66.3	68.4	—
3442	Fabricated plate work (boiler shops) .....	72.8	73.0	76.5	79.6	—	54.1	54.2	57.6	60.3	—
3443	Sheet metal work .....	137.1	136.5	137.5	138.3	—	89.0	87.9	89.5	90.1	—
3444	Architectural and miscellaneous metal work .....	86.8	87.0	92.9	94.1	—	62.6	63.0	67.9	69.0	—
3446,9	Screw machine products, bolts, etc .....	56.4	57.5	59.7	62.0	—	38.8	39.9	41.4	43.3	—
345	Screw machine products .....	99.1	97.3	104.8	106.3	105.0	76.7	75.1	82.5	83.7	82.5
3451	Bolts, nuts, rivets, and washers .....	45.8	45.5	50.5	51.3	—	37.5	37.4	41.6	42.1	—
3452	Metal stampings .....	53.3	51.8	54.3	55.0	—	39.2	37.7	40.9	41.6	—
346	Metal services, nec .....	230.2	213.3	236.0	237.8	(*)	187.4	170.4	193.0	194.2	(*)
347	Miscellaneous fabricated wire products .....	91.6	90.4	95.2	96.3	(*)	74.7	73.4	77.9	78.9	(*)
348	Miscellaneous fabricated metal products .....	60.2	59.1	59.8	60.6	59.5	47.8	46.8	46.4	47.1	44.7
349	Valves, pipe, and pipe fittings .....	166.2	164.1	172.4	176.7	175.3	120.4	118.5	125.7	129.5	127.5
3494,8	Valves, pipe, and pipe fittings .....	109.7	108.7	113.7	116.4	—	75.3	74.1	78.8	81.1	—

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

## B-2. Employees on nonagricultural payrolls, by industry—Continued

(In thousands)

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2,081.8	2,064.9	2,161.0	2,180.6	2,171.9	1,345.5	1,324.5	1,401.4	1,416.6	1,408.4
351	Engines and turbines	112.7	111.9	111.9	109.1	108.0	72.7	71.8	70.5	68.5	68.5
3511	Steam engines and turbines	43.3	42.7	42.4	42.5	—	22.9	22.6	22.2	22.1	—
3519	Internal combustion engines, nec	69.4	69.2	69.5	66.6	—	49.8	49.2	48.3	46.4	—
352	Farm machinery	149.2	147.5	148.2	147.9	—	105.3	103.1	103.5	102.9	—
353	Construction and related machinery	338.6	338.3	342.9	347.1	(*)	217.8	216.9	222.3	225.9	(*)
3531,2	Construction and mining machinery	181.5	180.9	177.5	179.3	—	116.7	116.3	114.8	116.1	—
3533	Oil field machinery	69.0	68.4	70.3	71.4	—	48.1	47.3	49.4	50.2	—
3535,6	Conveyors, hoists, cranes, monorails	47.0	46.9	49.6	50.1	—	28.6	27.9	29.1	29.8	—
3537	Industrial trucks and tractors	28.9	30.1	33.5	34.1	—	18.2	19.2	22.5	23.0	—
354	Metal working machinery	307.9	304.7	327.1	330.0	325.7	223.7	220.0	240.5	243.0	238.7
3541	Machine tools, metal cutting types	59.3	59.6	61.7	62.1	—	38.3	38.4	40.0	40.4	—
3544	Special dies, tools, jigs, and fixtures	121.1	118.3	133.0	134.1	—	97.2	94.2	107.1	108.3	—
3545	Machine tool accessories	53.4	52.9	57.3	58.1	—	37.6	37.1	40.9	41.5	—
3542,8	Miscellaneous metal working machinery	74.1	73.9	75.1	75.7	—	50.6	50.3	52.5	52.8	—
355	Special industry machinery	176.1	174.0	176.7	178.6	176.7	112.1	110.7	112.0	113.4	113.6
3551	Food products machinery	40.9	40.7	41.7	42.1	—	26.6	26.3	26.4	27.2	—
3552	Textile machinery	31.4	30.7	30.2	30.4	—	22.3	21.9	21.8	22.0	—
3555	Printing trades machinery	24.4	24.1	26.2	26.7	—	14.4	14.1	15.4	15.8	—
356	General industrial machinery	285.9	284.8	295.4	298.8	(*)	186.3	184.6	193.2	195.6	(*)
3561	Pumps and compressors	81.4	81.4	84.7	85.9	—	48.4	48.2	51.4	52.2	—
3562	Ball and roller bearings	53.6	52.8	56.8	57.3	—	40.5	39.3	42.0	42.5	—
3564	Blowers and fans	34.4	34.9	34.3	34.8	—	21.9	22.3	22.0	22.4	—
3566	Power transmission equipment	48.3	47.7	47.6	47.9	—	34.1	33.7	33.5	33.8	—
357	Office and computing machines	291.4	291.8	315.7	321.7	316.5	116.5	115.6	130.8	134.6	128.6
3573	Electronic computing equipment	218.8	219.3	240.9	246.8	—	73.4	72.6	87.3	90.9	—
358	Service industry machines	166.5	162.0	173.3	173.6	171.4	116.6	111.7	121.7	122.2	119.6
3585	Refrigeration machinery	116.3	112.5	121.9	122.1	—	83.2	79.0	87.4	87.9	—
359	Miscellaneous machinery, except electrical	253.5	249.9	269.8	273.8	(*)	194.5	190.1	206.9	210.5	(*)
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	1,842.3	1,806.3	1,915.1	1,937.7	1,926.2	1,221.4	1,187.7	1,274.8	1,292.5	1,277.3
361	Electric test and distributing equipment	196.0	185.8	201.6	203.7	(*)	130.9	123.3	137.1	138.7	(*)
3611	Electric measuring instruments	71.2	70.1	75.1	75.9	—	42.3	41.6	45.9	46.4	—
3612	Transformers	50.6	43.6	49.8	50.4	—	36.4	30.8	36.7	37.1	—
3613	Switchgear and switchboard apparatus	74.2	72.1	76.7	77.4	—	52.2	50.9	54.5	55.2	—
362	Electrical industrial apparatus	215.5	210.1	223.6	225.4	223.3	153.8	149.5	160.1	161.6	159.0
3621	Motors and generators	107.7	101.8	109.0	109.6	—	80.8	75.8	82.3	83.0	—
3622	Industrial controls	66.9	67.8	70.8	71.5	—	43.8	44.8	46.3	46.6	—
363	Household appliances	169.9	164.7	179.3	181.3	178.1	132.8	127.9	141.6	143.3	138.8
3632	Household refrigerators and freezers	39.0	35.5	39.1	40.0	—	30.2	26.7	30.6	31.5	—
3633	Household laundry equipment	25.0	23.8	28.2	28.4	—	19.7	18.7	22.4	22.6	—
3634	Electric housewares and fans	49.0	48.7	52.9	53.3	—	38.5	38.5	42.0	41.9	—
364	Electric lighting and wiring equipment	196.5	191.2	206.0	207.7	204.6	152.0	145.5	157.6	159.2	156.8
3641	Electric lamps	37.2	36.1	37.5	37.8	—	33.1	31.9	33.4	33.7	—
3642	Lighting fixtures	63.9	61.1	66.0	66.5	—	49.4	46.2	50.5	51.0	—
3643,4	Wiring devices	95.4	94.0	102.5	103.4	—	69.5	67.4	73.7	74.5	—
365	Radio and TV receiving equipment	130.5	127.5	132.8	134.7	128.5	95.0	92.6	95.9	97.9	92.6
366	Communication equipment	419.5	417.2	432.5	438.9	(*)	208.4	205.2	216.2	220.5	(*)
3661	Telephone and telegraph apparatus	131.4	130.7	142.6	145.1	—	85.1	84.9	95.6	97.9	—
3662	Radio and TV communication equipment	288.1	286.5	289.9	293.8	—	123.3	120.3	120.6	122.6	—
367	Electronic components and accessories	372.4	369.8	386.2	391.6	(*)	239.8	236.9	247.4	251.8	(*)
3671-3	Electron tubes	41.6	41.7	42.8	43.2	—	27.3	27.3	27.3	27.8	—
3674,9	Other electronic components	330.8	328.1	343.4	348.4	—	212.5	209.6	220.1	224.0	—
369	Miscellaneous electrical equipment and supplies	142.0	140.0	153.1	154.4	153.8	108.7	106.8	118.9	119.5	118.2
3694	Engine electrical equipment	73.8	72.8	80.1	79.7	—	58.0	57.1	64.6	64.0	—
37	<b>TRANSPORTATION EQUIPMENT</b>	1,760.8	1,679.8	1,811.0	1,828.1	1,793.9	1,253.6	1,171.4	1,287.1	1,299.6	1,264.2
371	Motor vehicles and equipment	866.5	808.5	892.2	902.4	(*)	677.4	618.2	696.2	704.4	(*)
3711	Motor vehicles	357.3	334.1	368.9	373.0	—	267.5	242.8	276.9	280.6	—
3712	Passenger car bodies	48.3	27.5	47.8	48.2	—	38.2	18.8	36.8	37.0	—
3713	Truck and bus bodies	39.5	39.4	41.6	41.2	—	30.1	30.1	32.2	31.9	—
3714	Motor vehicle parts and accessories	399.5	386.0	408.2	413.4	—	325.1	310.5	330.2	334.1	—
3715	Truck trailers	21.9	21.5	25.7	26.6	—	16.5	16.0	20.1	20.8	—
372	Aircraft and parts	483.0	468.7	483.3	487.4	(*)	249.4	234.9	246.4	249.3	(*)
3721	Aircraft	260.3	253.2	259.7	261.9	—	124.3	117.5	122.8	124.0	—
3722	Aircraft engines and engine parts	131.6	125.7	131.5	132.1	—	70.7	64.4	68.1	68.7	—
3723,9	Other aircraft parts and equipment	91.1	89.8	92.1	93.4	—	54.4	53.0	55.5	56.6	—
373	Ship and boat building and repairing	215.7	211.9	227.9	227.5	(*)	171.9	168.6	180.9	179.8	(*)
3731	Ship building and repairing	168.1	165.9	175.8	176.0	—	132.5	131.1	137.8	137.3	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2. Employees on nonagricultural payrolls, by industry—Continued**

(In thousands)

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
	<b>DURABLE GOODS—Continued</b>										
	<b>TRANSPORTATION EQUIPMENT—Continued</b>										
3732	Boat building and repairing .....	47.6	46.0	52.1	51.5	—	39.4	37.5	43.1	42.5	—
374	Railroad equipment .....	41.2	40.1	47.4	48.3	—	29.7	28.7	35.1	35.7	—
375,9	Other transportation equipment .....	154.4	150.6	160.2	162.5	—	125.2	121.0	128.5	130.4	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	515.3	510.3	525.4	530.3	527.6	315.1	311.1	322.2	324.8	321.9
381	Engineering and scientific instruments .....	59.1	58.7	59.0	59.6	—	28.7	28.5	27.8	28.1	—
382	Mechanical measuring and control devices .....	119.0	117.9	121.0	122.9	122.8	76.5	75.3	78.8	79.6	80.2
3821	Mechanical measuring devices .....	76.4	76.3	80.2	81.4	—	45.6	45.2	49.3	50.0	—
3822	Automatic temperature controls .....	42.6	41.6	40.8	41.5	—	30.9	30.1	29.5	29.6	—
383,5	Optical and ophthalmic goods .....	64.8	63.6	69.0	70.2	70.4	44.1	43.1	46.6	47.2	47.7
385	Ophthalmic goods .....	42.6	41.7	44.6	45.4	—	31.3	30.5	32.4	32.7	—
384	Medical instruments and supplies .....	109.8	108.4	115.9	116.9	116.8	73.6	72.5	78.6	79.3	78.6
386	Photographic equipment and supplies .....	131.4	131.8	130.2	130.2	(*)	67.1	67.9	66.9	67.0	(*)
387	Watches, clocks, and watchcases .....	31.2	29.9	30.3	30.5	—	25.1	23.8	23.5	23.6	—
	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	430.8	413.1	419.9	423.4	410.3	330.8	313.9	321.7	324.3	312.1
391	Jewelry, silverware, and plated ware .....	54.4	49.6	55.0	55.4	52.0	40.4	35.6	40.2	40.8	37.7
394	Toys and sporting goods .....	125.4	124.1	120.6	121.9	—	97.3	96.1	93.2	93.9	—
3941-3	Games, toys, dolls, and play vehicles .....	68.8	68.5	62.6	65.3	—	51.6	51.3	46.7	49.4	—
3949	Sporting and athletic goods, nec .....	56.6	55.6	58.0	56.6	—	45.7	44.8	46.5	44.5	—
395	Pens, pencils, office, and art supplies .....	34.7	33.2	33.7	33.6	—	24.4	23.3	24.3	24.0	—
396	Costume jewelry and notions .....	55.0	50.1	50.6	50.7	—	44.9	40.5	40.7	40.9	—
393,9	Other manufacturing industries .....	161.3	156.1	160.0	161.8	165.8	123.8	118.4	123.3	124.7	127.5
393	Musical instruments and parts .....	24.6	22.3	23.7	23.8	—	20.5	18.1	19.3	19.3	—
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	1,707.4	1,749.5	1,673.9	1,722.4	1,758.5	1,157.1	1,199.0	1,123.4	1,165.3	1,190.5
201	Meat products .....	353.3	353.4	358.1	364.5	367.1	290.1	290.0	294.7	300.4	302.2
2011	Meat packing plants .....	170.1	168.4	170.0	170.8	—	136.4	134.2	136.0	136.4	—
2013	Sausages and other prepared meats .....	66.5	67.0	67.8	68.5	—	47.3	47.5	49.2	49.7	—
2015	Poultry dressing plants .....	116.7	118.0	120.3	125.2	—	106.4	108.3	109.5	114.3	—
202	Dairy products .....	199.2	199.5	194.0	198.0	198.4	105.1	105.5	101.4	104.6	104.2
2024	Ice cream and frozen desserts .....	25.5	25.3	23.2	25.1	—	14.2	14.4	12.6	14.3	—
2026	Fluid milk .....	125.8	126.2	124.4	125.5	—	54.8	55.0	53.4	54.0	—
203	Canned, cured, and frozen foods .....	290.1	323.9	255.1	283.2	—	239.4	274.5	205.9	232.0	—
2031,6	Canned, cured, and frozen sea foods .....	47.5	48.3	42.1	43.9	—	41.6	42.4	36.8	38.6	—
2032,3	Canned food, except sea foods .....	127.6	161.4	110.1	127.0	—	101.9	137.1	84.9	100.7	—
2037	Frozen fruits and vegetables .....	66.3	61.8	63.4	64.2	—	57.8	53.0	54.7	55.3	—
204	Grain mill products .....	143.4	144.5	145.9	147.9	148.7	99.9	100.4	101.2	103.5	104.3
2041	Flour and other grain mill products .....	26.2	26.5	28.2	28.7	—	18.4	18.6	19.2	19.8	—
2042	Prepared feeds for animals and fowls .....	75.1	74.7	73.3	74.1	—	49.7	48.9	48.3	49.5	—
205	Bakery products .....	244.1	244.1	239.7	240.6	(*)	140.9	141.4	138.5	138.9	(*)
2051	Bread, cake, and related products .....	202.6	202.8	200.6	202.2	—	108.1	108.7	107.2	108.2	—
2052	Cookies and crackers .....	41.5	41.3	39.1	38.4	—	32.8	32.7	31.3	30.7	—
206	Sugar .....	30.4	30.8	26.9	26.9	—	21.8	22.4	19.7	19.3	—
207	Confectionery and related products .....	75.2	75.6	74.9	74.6	(*)	57.1	57.5	56.7	56.7	(*)
2071	Confectionery products .....	55.1	54.8	53.6	53.2	—	42.9	42.7	41.6	41.4	—
208	Beverages .....	230.0	233.1	231.5	237.9	241.1	111.6	113.4	109.7	114.4	115.3
2082	Malt liquors .....	49.1	50.9	51.7	52.7	—	35.3	37.2	37.2	38.2	—
2086	Bottled and canned soft drinks .....	136.5	138.6	135.9	140.8	—	50.6	51.8	48.9	52.2	—
209	Miscellaneous foods and kindred products .....	141.7	144.6	147.8	148.8	147.9	91.2	93.9	95.6	95.5	95.6
21	<b>TOBACCO MANUFACTURES</b> .....	67.7	73.2	63.2	65.0	65.2	54.8	60.2	49.8	51.5	50.6
211	Cigarettes .....	45.8	46.2	42.5	44.4	—	37.4	37.9	33.7	35.3	—
212	Cigars .....	10.3	9.7	9.3	9.3	—	9.0	8.5	8.0	8.1	—
22	<b>TEXTILE MILL PRODUCTS</b> .....	981.3	951.3	983.5	995.7	980.6	858.2	829.4	857.8	869.3	852.7
221	Weaving mills, cotton .....	176.3	172.1	172.4	172.9	171.8	160.6	156.4	155.8	156.4	155.2
222	Weaving mills, synthetics .....	123.9	121.0	121.2	122.1	120.8	110.7	107.9	108.8	109.5	108.2
223	Weaving and finishing mills, wool .....	23.1	22.2	23.5	23.8	22.7	19.3	18.5	19.8	20.0	19.0
224	Narrow fabric mills .....	27.7	24.9	26.0	26.0	25.3	24.2	21.6	22.7	22.6	21.9
225	Knitting mills .....	266.8	255.8	269.6	275.9	(*)	230.6	219.7	232.2	238.4	(*)
2251	Women's hosiery, except socks .....	38.5	37.9	37.8	38.5	—	33.9	33.5	33.5	34.1	—
2252	Hosiery, nec .....	35.9	35.0	35.8	36.3	—	32.0	31.1	31.9	32.6	—
2253	Knit outerwear mills .....	79.9	74.1	81.7	84.7	—	68.4	62.7	69.8	72.7	—
2254	Knit underwear mills .....	40.7	40.6	41.3	41.9	—	35.7	35.4	35.6	36.2	—

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

## B-2. Employees on nonagricultural payrolls, by industry—Continued

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
<b>NONDURABLE GOODS—Continued</b>											
<b>TEXTILE MILL PRODUCTS—Continued</b>											
226	Textile finishing, except wool .....	83.9	80.9	82.1	83.4	81.0	71.4	68.4	69.5	70.9	68.5
227	Floor covering mills .....	60.3	58.5	63.9	64.2	—	47.5	46.1	50.8	50.7	—
228	Yarn and thread mills .....	155.8	152.5	157.1	159.1	(*)	142.7	139.6	143.7	145.7	(*)
229	Miscellaneous textile goods .....	63.5	63.4	67.7	68.3	(*)	51.2	51.2	54.5	55.1	(*)
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b> .....	1,331.0	1,255.0	1,295.9	1,317.5	1,269.3	1,148.2	1,074.6	1,112.4	1,131.9	1,087.7
231	Men's and boys' suits and coats .....	90.8	84.6	88.6	89.8	(*)	79.9	74.8	78.0	79.1	(*)
232	Men's and boys' furnishings .....	393.8	373.9	385.6	391.9	379.1	339.6	319.3	331.0	336.5	324.8
2321	Men's and boys' shirts and nightwear .....	122.2	115.3	115.9	117.8	—	107.1	100.2	100.4	102.1	—
2327	Men's and boys' separate trousers .....	88.1	83.7	86.8	88.5	—	77.1	73.1	76.3	77.7	—
2328	Men's and boys' work clothing .....	94.7	89.9	97.4	99.4	—	78.6	73.2	80.2	81.8	—
233	Women's and misses' outerwear .....	396.3	375.4	376.1	381.7	365.6	347.6	327.8	327.6	333.1	318.3
2331	Women's and misses' blouses and waists .....	50.7	47.7	48.7	49.6	—	44.8	42.0	42.6	43.5	—
2335	Women's and misses' dresses .....	170.2	162.2	165.0	166.3	—	152.0	144.7	146.4	147.9	—
2337	Women's and misses' suits and coats .....	60.6	57.9	51.1	54.8	—	52.0	49.3	42.3	45.8	—
2339	Women's and misses' outerwear, nec .....	114.8	107.6	111.3	111.0	—	98.8	91.8	96.3	95.9	—
234	Women's and children's undergarments .....	103.3	97.7	101.2	102.1	(*)	87.8	82.6	85.8	86.5	(*)
2341	Women's and children's underwear .....	78.3	73.7	77.2	77.9	—	67.9	63.6	66.6	67.1	—
2342	Corsets and allied garments .....	25.0	24.0	24.0	24.2	—	19.9	19.0	19.2	19.4	—
235	Hats, caps, and millinery .....	16.1	15.4	16.4	16.6	—	14.0	13.2	14.4	14.6	—
236	Children's outerwear .....	81.5	73.6	77.3	79.4	76.7	70.5	62.6	66.2	68.2	65.2
2361	Children's dresses and blouses .....	32.3	30.6	31.3	32.0	—	29.2	27.4	28.2	29.0	—
237,8	Fur goods and miscellaneous apparel .....	69.1	64.4	68.7	70.7	—	59.9	55.2	58.8	60.5	—
239	Miscellaneous fabricated textile products .....	180.1	170.0	182.0	185.3	177.2	148.9	139.1	150.6	153.4	146.1
2391,2	Housefurnishings .....	76.3	71.8	75.7	78.2	—	64.0	59.6	63.3	65.5	—
26	<b>PAPER AND ALLIED PRODUCTS</b> .....	684.7	678.7	696.0	707.9	703.0	522.3	514.5	523.2	532.7	528.5
261,2,6	Paper and pulp mills .....	202.1	200.9	202.6	205.4	(*)	155.9	154.4	155.2	157.7	(*)
263	Paperboard mills .....	70.8	71.6	71.2	72.5	72.1	56.4	56.5	55.9	57.0	56.4
264	Miscellaneous converted paper products .....	198.9	196.8	207.5	210.8	208.1	143.3	140.4	145.8	148.1	147.0
2643	Bags, except textile bags .....	42.7	42.3	44.7	45.1	—	34.0	33.4	35.6	35.8	—
265	Paperboard containers and boxes .....	212.9	209.4	214.7	219.2	217.1	166.7	163.2	166.3	169.9	167.5
2651,2	Folding and setup paperboard boxes .....	60.1	58.6	59.6	60.8	—	49.2	47.9	47.9	48.8	—
2653	Corrugated and solid fiber boxes .....	103.1	101.5	104.8	107.0	—	76.6	74.9	77.1	79.0	—
2654	Sanitary food containers .....	31.4	31.1	32.6	33.4	—	26.2	25.8	27.0	27.7	—
27	<b>PRINTING AND PUBLISHING</b> .....	1,077.8	1,076.4	1,105.4	1,111.4	1,108.0	629.6	624.7	641.0	640.6	636.4
271	Newspapers .....	383.2	382.9	390.9	394.5	393.8	167.2	165.3	166.3	165.6	165.0
272	Periodicals .....	68.6	69.9	71.4	72.1	—	18.2	18.5	20.0	19.9	—
273	Books .....	88.1	86.7	91.3	90.3	—	47.2	45.4	49.1	48.6	—
275	Commercial printing .....	356.9	355.3	365.8	366.0	363.0	268.3	266.8	274.2	273.6	269.5
2751	Commercial printing, except lithographic .....	203.8	202.0	205.4	205.3	—	155.9	154.3	156.1	155.4	—
2752	Commercial printing, lithographic .....	143.1	143.4	149.8	150.3	—	104.8	105.0	109.7	109.9	—
278	Blankbooks and bookbinding .....	51.1	50.5	51.6	52.2	52.2	41.9	41.1	42.0	42.5	42.5
274,6,7,9	Other publishing and printing ind .....	129.9	131.1	134.4	136.3	136.9	86.8	87.6	89.4	90.4	90.9
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> .....	1,036.2	1,041.9	1,056.4	1,068.2	1,073.0	591.5	591.2	607.7	614.8	614.2
281	Industrial chemicals .....	337.1	340.4	343.8	348.5	(*)	181.1	181.3	185.3	187.5	(*)
2812	Alkalies and chlorine .....	21.7	21.8	20.7	21.1	—	16.0	15.9	15.1	15.4	—
2818	Industrial organic chemicals, nec .....	139.9	141.3	141.5	144.1	—	61.6	61.9	65.3	66.8	—
2819	Industrial inorganic chemicals, nec .....	108.6	110.2	114.2	115.6	—	60.6	60.8	62.4	63.0	—
282	Plastics materials and synthetics .....	205.0	204.0	206.1	208.1	209.0	136.4	135.0	138.5	140.8	141.7
2821	Plastics materials and resins .....	88.5	88.4	89.6	90.9	—	55.6	55.2	56.2	57.4	—
2823,4	Synthetic fibers .....	105.0	104.1	102.9	103.4	—	72.7	71.7	71.9	72.9	—
283	Drugs .....	169.8	169.9	174.3	176.2	(*)	84.8	83.9	88.3	89.0	(*)
2834	Pharmaceutical preparations .....	135.2	135.4	139.4	140.6	—	65.2	64.5	68.3	68.5	—
284	Soap, cleaners, and toilet goods .....	118.4	122.7	122.3	124.0	123.8	68.9	72.1	72.5	74.3	73.2
2841	Soap and other detergents .....	35.2	39.3	39.9	40.6	—	22.5	25.8	25.9	26.6	—
2844	Toilet preparations .....	49.7	49.9	48.6	49.3	—	28.9	28.9	28.8	29.7	—
285	Paints and allied products .....	68.0	68.3	70.2	72.1	72.5	37.2	37.2	37.5	38.7	39.1
287	Agricultural chemicals .....	56.6	54.7	60.1	58.0	56.4	34.8	32.9	38.1	35.8	33.8
2871,2	Fertilizers, complete and mixing only .....	33.7	32.0	36.7	34.7	—	23.2	21.4	25.6	23.5	—
286,9	Other chemical products .....	81.3	81.9	79.6	81.3	81.6	48.3	48.8	47.5	48.7	48.3
2892	Explosives .....	15.2	15.2	13.8	14.0	—	9.7	9.8	9.2	9.4	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	205.7	207.1	209.8	214.2	215.8	133.9	135.0	137.7	142.4	145.5
291	Petroleum refining .....	158.3	159.1	160.3	163.5	164.2	98.8	99.2	100.9	104.4	106.9
295,9	Other petroleum and coal products .....	47.4	48.0	49.5	50.7	51.6	35.1	35.8	36.8	38.0	38.6

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2. Employees on nonagricultural payrolls, by industry—Continued**

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
<b>NONDURABLE GOODS—Continued</b>											
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC...</b>	580.0	564.8	673.9	684.6	675.1	439.5	426.2	529.6	539.0	528.3
301	Tires and inner tubes .....	60.1	55.0	123.1	124.6	125.3	28.4	25.0	91.5	92.7	93.3
302,3,6	Other rubber products .....	162.6	159.2	173.0	174.6	169.1	126.4	123.0	136.0	137.4	132.1
302	Rubber footwear .....	20.3	18.7	21.5	20.8	—	16.6	15.1	18.7	18.0	—
307	Miscellaneous plastics products .....	357.3	350.6	377.8	385.4	380.7	284.7	278.2	302.1	308.9	302.9
31	<b>LEATHER AND LEATHER PRODUCTS .....</b>	282.7	265.0	269.7	274.2	265.5	245.0	228.6	231.3	235.4	228.7
311	Leather tanning and finishing .....	25.0	23.3	23.7	24.1	23.1	21.7	20.0	20.2	20.7	19.8
314	Footwear, except rubber .....	177.4	166.5	168.3	170.3	166.1	155.9	146.2	147.2	149.1	146.1
312,3,5-7,9	Other leather products .....	80.3	75.2	77.7	79.8	76.3	67.4	62.4	63.9	65.6	62.8
316	Luggage .....	19.0	17.8	18.6	18.7	—	15.3	14.0	14.7	14.7	—
317	Handbags and personal leather goods .....	36.4	34.5	34.3	35.9	—	30.8	28.9	28.1	29.6	—
<b>TRANSPORTATION AND PUBLIC UTILITIES .....</b>											
		4,531	4,540	4,577	4,626	4,615	3,882	3,890	3,895	3,939	3,926
40	<b>RAILROAD TRANSPORTATION .....</b>	531.8	536.6	537.9	547.4	—	—	—	—	—	—
4011	Class I railroads <sup>2</sup> .....	494.4	497.3	499.9	508.5	—	—	—	—	—	—
<b>LOCAL AND INTERURBAN PASSENGER TRANSIT .....</b>											
41		265.7	239.0	271.3	263.0	—	—	—	—	—	—
411	Local and suburban transportation .....	68.1	67.4	67.2	66.9	—	62.8	61.8	62.2	61.9	—
412	Taxicabs .....	77.2	77.4	72.8	71.0	—	—	—	—	—	—
413	Intercity highway transportation .....	40.4	42.5	39.0	39.9	—	36.7	38.7	35.3	36.3	—
42	<b>TRUCKING AND WAREHOUSING .....</b>	1,106.1	1,115.2	1,118.1	1,141.0	—	987.7	995.7	988.8	1,010.8	—
421,3	Trucking and trucking terminals .....	1,021.6	1,030.3	1,027.9	1,052.2	—	915.9	923.4	912.0	935.5	—
422	Public warehousing .....	84.5	84.9	90.2	88.8	—	71.8	72.3	76.8	75.3	—
45	<b>TRANSPORTATION BY AIR .....</b>	369.8	374.3	376.6	381.2	—	—	—	—	—	—
451,2	Air transportation .....	335.2	339.4	341.1	344.7	—	—	—	—	—	—
46	<b>PIPELINE TRANSPORTATION .....</b>	17.0	17.2	16.5	17.5	—	12.6	12.8	12.0	12.9	—
44,47	<b>OTHER TRANSPORTATION AND SERVICES .....</b>	354.3	354.9	354.3	355.2	—	—	—	—	—	—
44	<b>WATER TRANSPORTATION .....</b>	206.3	207.6	197.9	195.2	—	—	—	—	—	—
47	<b>TRANSPORTATION SERVICES .....</b>	148.0	147.3	156.4	160.0	—	—	—	—	—	—
48	<b>COMMUNICATION .....</b>	1,143.3	1,157.8	1,162.7	1,167.1	—	875.9	892.0	888.3	891.3	—
481	Telephone communication .....	936.1	949.3	947.3	953.2	—	708.3	722.4	714.2	719.4	—
482	Telegraph communication <sup>3</sup> .....	17.3	17.3	18.0	(*)	—	12.7	12.7	15.1	(*)	—
483	Radio and television broadcasting .....	156.3	157.3	161.9	160.4	—	125.7	127.3	128.2	125.7	—
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES .....</b>	742.7	744.9	740.0	754.0	—	618.1	619.2	611.5	623.5	—
491	Electric companies and systems .....	317.2	315.3	317.6	322.7	—	261.7	259.5	260.1	264.5	—
492	Gas companies and systems .....	161.9	163.8	156.6	160.9	—	133.9	135.4	129.1	133.3	—
493	Combination companies and systems .....	196.0	197.0	194.7	197.9	—	164.5	165.0	161.3	163.3	—
494-7	Water, steam, and sanitary systems .....	67.6	68.8	71.1	72.5	—	58.0	59.3	61.0	62.4	—
50	<b>WHOLESALE AND RETAIL TRADE .....</b>	17,757	17,723	18,176	18,322	18,297	15,705	15,672	16,039	16,159	16,121
50	<b>WHOLESALE TRADE .....</b>	4,280	4,297	4,353	4,399	4,412	3,544	3,560	3,597	3,635	3,646
501	Motor vehicles and automotive equipment .....	384.2	385.2	393.5	398.5	—	314.2	314.8	322.3	326.8	—
502	Drugs, chemicals, and allied products .....	242.2	242.9	244.0	247.4	—	193.3	193.2	193.6	196.1	—
503	Dry goods and apparel .....	157.4	154.3	158.8	159.8	—	122.9	120.7	122.2	122.8	—
504	Groceries and related products .....	623.6	632.1	612.4	621.1	—	543.6	552.0	530.7	538.9	—
506	Electrical goods .....	318.6	318.7	325.6	328.3	—	269.2	268.7	274.7	275.4	—
507	Hardware, plumbing and heating equipment .....	186.7	187.9	192.9	195.4	—	154.7	155.8	159.7	162.1	—
508	Machinery, equipment, and supplies .....	890.3	891.1	925.5	932.0	—	734.2	734.8	765.6	771.5	—
509	Miscellaneous wholesalers .....	1,368.7	1,378.4	1,391.4	1,407.0	—	1,123.1	1,132.9	1,141.0	1,153.3	—
52-59	<b>RETAIL TRADE .....</b>	13,477	13,426	13,823	13,923	13,885	12,161	12,112	12,442	12,524	12,475
53	<b>Retail General Merchandise .....</b>	2,452.1	2,439.0	2,464.1	2,474.8	—	2,252.7	2,239.1	2,268.1	2,274.9	—
531	Department stores .....	1,660.6	1,654.1	1,685.6	1,694.8	—	1,534.0	1,528.0	1,564.0	1,570.9	—
532	Mail order houses .....	108.8	108.1	105.2	105.0	—	101.4	100.9	99.7	99.6	—
533	Variety stores .....	302.1	296.6	303.8	302.2	—	282.5	276.5	283.3	280.5	—
54	<b>FOOD STORES .....</b>	2,053.8	2,043.4	2,098.9	2,104.2	—	1,901.6	1,888.3	1,940.2	1,943.7	—
541-3	Grocery, meat, and vegetable stores .....	1,869.2	1,861.0	1,904.2	1,907.7	—	1,731.0	1,719.8	1,759.7	1,762.1	—

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

## B-2. Employees on nonagricultural payrolls, by industry—Continued

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		June 1976	July 1976	May 1977	June <sup>P</sup> 1977	July <sup>P</sup> 1977	June 1976	July 1976	May 1977	June <sup>P</sup> 1977	July <sup>P</sup> 1977
<b>WHOLESALE AND RETAIL TRADE—Continued</b>											
56	APPAREL AND ACCESSORY STORES .....	790.1	780.7	808.7	804.2	—	691.1	680.8	699.6	696.4	—
561	Men's and boys' clothing and furnishings .....	139.0	139.1	139.9	141.9	—	120.9	121.0	120.9	122.3	—
562	Women's ready-to-wear stores .....	293.8	288.7	292.8	289.0	—	259.3	253.5	254.6	251.7	—
565	Family clothing stores .....	124.0	122.0	126.9	126.6	—	112.5	110.3	113.3	113.1	—
566	Shoe stores .....	161.1	159.5	174.1	171.4	—	134.9	133.4	145.1	142.9	—
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	530.9	531.5	543.1	547.4	—	449.1	448.6	456.4	460.4	—
571	Furniture and home furnishings .....	323.7	323.5	323.9	328.0	—	276.1	275.6	274.5	278.2	—
58	<b>EATING AND DRINKING PLACES</b> .....	3,728.6	3,713.4	3,893.5	3,950.8	—	3,482.2	3,469.5	3,631.6	3,676.8	—
52,55,59	<b>OTHER RETAIL TRADE</b> .....	3,921.2	3,918.2	4,014.4	4,041.5	—	3,384.1	3,385.6	3,445.9	3,472.1	—
52	Building materials and farm equipment .....	644.2	647.5	652.4	669.9	—	551.7	556.3	556.9	572.8	—
55	Automotive dealers and service stations .....	1,757.6	1,765.7	1,776.1	1,793.5	—	—	—	—	—	—
551,2	Motor vehicle dealers .....	789.4	791.4	808.5	811.9	—	660.0	662.5	672.6	675.8	—
553,9	Other automotive and accessory dealers .....	340.4	342.5	346.2	354.1	—	288.4	290.5	293.7	300.6	—
554	Gasoline service stations .....	627.8	631.8	621.4	627.5	—	—	—	—	—	—
59	Miscellaneous retail stores .....	1,519.4	1,505.0	1,585.9	1,578.1	—	—	—	—	—	—
591	Drug stores and proprietary stores .....	476.3	472.7	482.0	482.1	—	425.2	421.5	426.4	427.2	—
594	Book and stationery stores .....	78.6	78.8	81.6	82.1	—	66.0	66.0	69.2	69.3	—
596	Farm and garden supply stores .....	141.2	138.0	151.3	147.2	—	—	—	—	—	—
598	Fuel and ice dealers .....	95.7	95.1	95.8	95.6	—	80.8	80.0	80.6	80.4	—
<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>4</sup></b>											
	.....	4,344	4,368	4,476	4,533	4,565	3,323	3,344	3,407	3,459	3,484
60	Banking .....	1,303.8	1,311.3	1,329.4	1,347.1	—	1,028.9	1,035.1	1,036.8	1,053.0	—
61	Credit agencies other than banks .....	462.2	466.5	492.6	498.7	—	355.2	358.4	379.0	384.8	—
612	Savings and loan associations .....	185.8	188.1	203.3	207.1	—	149.8	152.0	161.7	165.3	—
614	Personal credit institutions .....	193.7	195.1	202.8	203.7	—	—	—	—	—	—
62	Security, commodity brokers and services .....	176.9	176.5	181.1	181.6	—	144.1	143.5	148.2	148.3	—
63	Insurance carriers .....	1,114.0	1,115.4	1,142.0	1,149.6	—	752.7	754.5	774.5	781.4	—
631	Life insurance .....	519.0	516.1	518.3	519.4	—	298.6	295.8	294.2	294.8	—
632	Accident and health insurance .....	121.7	122.3	123.8	124.3	—	100.1	100.0	101.4	102.4	—
633	Fire, marine, and casualty insurance .....	412.5	415.4	432.8	437.5	—	303.9	307.8	323.4	327.4	—
64	Insurance agents, brokers, and service .....	340.5	342.3	360.0	364.0	—	—	—	—	—	—
65	Real estate .....	829.1	838.0	856.3	875.4	—	—	—	—	—	—
655	Subdividers and developers .....	124.3	125.1	123.6	126.3	—	—	—	—	—	—
656	Operative builders .....	57.6	58.7	64.4	66.1	—	—	—	—	—	—
66,67	Other finance, insurance, and real estate .....	117.4	117.6	114.8	116.1	—	—	—	—	—	—
<b>SERVICES</b> .....											
	.....	14,815	14,825	15,288	15,454	15,473	13,360	13,349	13,722	13,843	13,863
70	Hotels and other lodging places .....	1,104.0	1,194.1	1,061.5	1,116.8	—	—	—	—	—	—
701	Hotels, tourist courts, and motels .....	917.6	932.6	866.8	897.9	—	852.9	867.4	801.1	829.2	—
72	Personal services .....	830.2	824.1	808.9	812.3	—	—	—	—	—	—
721	Laundries and dry cleaning plants .....	356.6	357.2	349.1	352.2	—	319.0	320.0	312.7	315.7	—
722	Photographic studios .....	43.0	42.5	39.3	38.6	—	37.4	37.0	35.0	34.4	—
73	Miscellaneous business services .....	2,126.0	2,135.0	2,226.5	2,241.0	—	—	—	—	—	—
731	Advertising .....	125.5	126.2	132.6	134.0	—	—	—	—	—	—
732	Credit reporting and collection .....	81.9	82.1	87.1	87.6	—	—	—	—	—	—
734	Services to buildings .....	412.3	410.6	426.9	426.3	—	—	—	—	—	—
76	Miscellaneous repair services .....	217.9	220.0	229.5	230.2	—	—	—	—	—	—
78	Motion pictures .....	211.6	217.1	200.6	212.6	—	—	—	—	—	—
781	Motion picture filming and distributing .....	64.6	66.9	60.8	70.1	—	48.5	52.2	50.2	58.0	—
782,3	Motion picture theaters and services .....	147.0	150.2	139.8	142.5	—	—	—	—	—	—
80	Medical and other health services .....	4,461.2	4,443.4	4,676.4	4,745.7	—	—	—	—	—	—
806	Hospitals .....	2,399.3	2,373.9	2,474.2	2,502.5	—	2,192.5	2,163.3	2,246.6	2,266.2	—
81	Legal services .....	378.1	382.7	394.7	418.7	—	—	—	—	—	—
82	Educational services .....	1,189.6	1,073.0	1,339.3	1,225.9	—	—	—	—	—	—
821	Elementary and secondary schools .....	408.9	343.1	445.1	424.9	—	—	—	—	—	—
822	Colleges and universities .....	612.8	567.0	703.7	614.0	—	—	—	—	—	—
89	Miscellaneous services .....	901.1	909.7	954.3	970.1	—	—	—	—	—	—
891	Engineering and architectural services .....	412.0	414.7	439.7	449.6	—	—	—	—	—	—
892	Nonprofit research agencies .....	151.8	153.9	162.3	164.8	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2. Employees on nonagricultural payrolls, by industry—Continued**

(In thousands)

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
—	<b>GOVERNMENT</b> .....	15,033	14,340	15,345	15,292	14,624	.	.	.	.	.
91	<b>FEDERAL GOVERNMENT</b> <sup>6</sup> .....	2,758	2,775	2,728	2,765	2,782	—	—	—	—	—
	Executive .....	2,707.8	2,724.1	2,675.8	2,712.3	—	—	—	—	—	
	Department of Defense .....	936.7	938.5	920.0	932.0	—	—	—	—	—	
	Postal Service .....	672.8	670.7	652.9	655.6	—	—	—	—	—	
	Other agencies .....	1,098.3	1,114.9	1,102.9	1,124.7	—	—	—	—	—	
	Legislative .....	39.3	39.6	39.8	40.4	—	—	—	—	—	
	Judicial .....	11.1	11.1	12.3	12.3	—	—	—	—	—	
92,93	<b>STATE AND LOCAL GOVERNMENT</b> .....	12,275	11,565	12,617	12,527	11,842	.	.	.	.	
92	State government .....	3,168.4	3,091.3	3,362.8	(*)	—	—	—	—	—	
	State education .....	1,273.7	1,175.8	1,440.7	(*)	—	—	—	—	—	
	Other State government .....	1,894.7	1,915.5	1,922.1	(*)	—	—	—	—	—	
93	Local government .....	9,106.3	8,474.1	9,253.8	(*)	—	—	—	—	—	
	Local education .....	5,037.9	4,228.1	5,338.8	(*)	—	—	—	—	—	
	Other local government .....	4,068.4	4,246.0	3,915.0	(*)	—	—	—	—	—	

<sup>1</sup> Data relate to production and related workers in mining and manufacturing; to construction workers in contract construction; and to nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>2</sup> Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 or more.

<sup>3</sup> Data for nonsupervisory workers exclude messengers.

<sup>4</sup> Data for nonoffice sales agents excluded from nonsupervisory count for all series in this division.

<sup>5</sup> Prepared by the U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

\* Not available.  
p=preliminary.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls, by industry**

SIC Code	Industry	April 1976		January 1977		April 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<b>TOTAL</b> .....	31,445	40	31,970	40	32,723	40
	<b>PRIVATE SECTOR</b> .....	24,570	38	25,092	39	25,627	39
	<b>MINING</b> .....	55	7	61	8	62	7
10	<b>METAL MINING</b> .....	4.6	5	5.3	6	5.7	6
11,12	<b>COAL MINING</b> .....	4.4	2	5.0	2	5.3	2
13	<b>OIL AND GAS EXTRACTION</b> .....	39.9	11	43.3	11	44.0	11
131,2	Crude petroleum and natural gas fields .....	25.2	16	27.8	17	28.6	17
138	Oil and gas field services .....	14.7	8	15.5	7	15.4	7
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	6.5	6	6.9	7	7.3	6
142	Crushed and broken stone .....	2.1	5	2.1	6	2.2	5
144	Sand and gravel .....	1.9	6	2.1	7	2.3	6
	<b>CONTRACT CONSTRUCTION</b> .....	239	7	255	8	258	7
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	75.5	7	81.6	8	81.3	7
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	395	6	42.6	8	43.7	6
161	Highway and street construction .....	12.8	5	15.1	7	15.9	5
162	Heavy construction, nec .....	26.7	7	27.5	8	27.8	7
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	124.4	7	130.9	8	132.8	7
171	Plumbing, heating, air conditioning .....	36.1	9	37.2	9	38.0	9
172	Painting, paper hanging, decorating .....	8.1	7	9.3	8	9.4	7
173	Electrical work .....	20.2	6	21.8	7	22.0	7
174	Masonry, stonework, and plastering .....	9.4	5	10.7	6	11.2	5
176	Roofing and sheet metal work .....	8.6	7	9.4	9	9.4	7
	<b>MANUFACTURING</b> .....	5,530	29	5,571	29	5,730	30
19,24,25,32-39	<b>DURABLE GOODS</b> .....	2,412	22	2,495	22	2,569	23
20-23,26-31	<b>NONDURABLE GOODS</b> .....	3,118	40	3,076	39	3,161	40
	<b>DURABLE GOODS</b>						
19	<b>ORDNANCE AND ACCESSORIES</b> .....	36.9	23	35.7	23	35.2	23
192	Ammunition, except for small arms .....	24.5	24	23.8	23	23.1	23
1925	Complete guided missiles .....	18.6	22	17.7	21	17.1	21
1929	Ammunition, except for small arms, nec .....	5.9	33	6.1	34	6.0	33
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	75.3	13	78.9	13	82.5	13
241	Logging camps, and logging contractors .....	4.0	6	3.7	5	3.6	5
242	Sawmills and planing mills .....	15.1	7	17.2	8	17.8	8
2421	Sawmills and planing mills, general .....	11.2	6	12.6	7	13.2	7
243	Millwork, plywood and related products .....	28.3	14	30.1	15	31.9	15
2431	Millwork .....	15.8	18	16.6	18	17.8	18
2432	Veneer and plywood .....	9.3	13	10.1	13	10.2	13
244	Wooden containers .....	4.0	18	4.2	21	4.8	22
2441,2	Wooden boxes, shooks, and crates .....	3.2	18	3.3	20	3.7	21
249	Miscellaneous wood products .....	23.9	25	23.7	24	24.4	24
25	<b>FURNITURE AND FIXTURES</b> .....	136.2	28	139.2	28	142.5	28
251	Household furniture .....	108.5	31	110.8	31	114.3	31
2511	Wood household furniture .....	51.9	29	53.6	29	54.1	29
2512	Upholstered household furniture .....	35.1	34	36.2	35	36.7	35
2515	Mattresses and bedsprings .....	9.6	29	8.9	28	9.3	28
252	Office furniture .....	6.9	19	7.8	19	8.1	20
254	Partitions and fixtures .....	8.1	16	8.2	16	8.1	15
253,9	Other furniture and fixtures .....	12.7	28	12.4	28	12.0	28
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	109.3	18	112.9	19	114.8	18
321	Flat glass .....	1.3	8	1.3	8	1.3	8
322	Glass and glassware, pressed or blown .....	43.8	34	45.1	34	46.3	34
3221	Glass containers .....	26.8	35	27.9	36	28.2	36
3229	Pressed and blown glass nec .....	17.0	31	17.2	32	18.1	31
324	Cement, hydraulic .....	1.3	4	1.3	5	1.3	4
325	Structural clay products .....	5.2	11	6.0	13	6.1	12
3251	Brick and structural clay tile .....	1.1	5	1.2	6	1.3	6
326	Pottery and related products .....	14.7	33	13.7	34	13.3	33
327	Concrete, gypsum, and plaster products .....	11.8	6	12.2	7	12.7	6
328,9	Other stone and nonmetallic mineral products .....	21.1	16	22.8	17	23.3	17
3291	Abrasive products .....	5.3	22	5.4	22	5.3	22

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	April 1976		January 1977		April 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<b>DURABLE GOODS—Continued</b>						
33	<b>PRIMARY METAL INDUSTRIES</b> .....	99.6	8	102.2	9	106.3	9
331	Blast furnace and basic steel products .....	27.9	5	29.1	5	30.8	6
3312	Blast furnaces and steel mills .....	22.1	5	22.9	5	24.7	5
332	Iron and steel foundries .....	12.7	6	13.3	6	14.4	7
3321	Gray iron foundries .....	6.3	5	6.9	5	7.6	5
3322	Malleable iron foundries .....	1.3	6	1.4	7	1.4	7
3323	Steel foundries .....	5.1	9	5.0	9	5.4	10
333,4	Nonferrous metals .....	4.2	5	4.8	6	4.9	6
3334	Primary aluminum .....	1.1	3	1.4	4	1.4	4
335	Nonferrous rolling and drawing .....	36.6	19	36.5	19	37.2	19
3351	Copper rolling and drawing .....	2.9	8	3.2	9	3.5	10
3352	Aluminum rolling and drawing .....	7.1	12	7.1	11	7.5	12
3357	Nonferrous wire drawing and insulating .....	22.3	28	22.3	29	22.6	28
336	Nonferrous foundries .....	12.1	15	12.3	15	12.7	16
3361	Aluminum castings .....	5.8	13	5.8	13	6.1	13
3362,9	Other nonferrous castings .....	6.3	18	6.5	18	6.6	18
339	Miscellaneous primary metal products .....	6.1	8	6.2	9	6.3	9
3391	Iron and steel forgings .....	3.2	7	3.2	7	3.2	7
34	<b>FABRICATED METAL PRODUCTS</b> .....	270.8	20	280.1	20	287.3	20
341	Metal cans .....	10.4	16	10.2	17	10.2	17
342	Cutlery, hand tools, and hardware .....	56.0	34	58.1	34	58.4	34
3421,3,5	Cutlery and hand tools, including saws .....	21.3	30	21.6	30	21.6	31
3429	Hardware, nec .....	34.7	36	36.5	36	36.8	36
343	Plumbing and heating, except electric .....	13.5	20	13.8	19	15.0	20
3431,2	Sanitary ware and plumbers' brass goods .....	6.8	21	6.7	21	7.2	22
3433	Heating equipment, except electric .....	6.7	18	7.1	18	7.8	19
344	Fabricated structural metal products .....	58.0	13	60.5	13	62.1	14
3441	Fabricated structural steel .....	6.4	7	6.6	7	6.6	7
3442	Metal doors, sash, and trim .....	21.3	31	21.2	30	22.0	30
3443	Fabricated plate work (boiler shops) .....	11.8	9	13.2	10	13.3	10
3444	Sheet metal work .....	12.4	15	12.8	14	12.9	14
3446,9	Architectural and miscellaneous metal work .....	6.1	11	6.7	12	7.3	13
345	Screw machine products, bolts, etc. ....	20.5	21	21.7	21	22.4	22
3451	Screw machine products .....	10.9	24	11.7	24	12.1	24
3452	Bolts, nuts, rivets, and washers .....	9.6	18	10.0	19	10.3	19
346	Metal stampings .....	47.2	21	47.9	21	48.8	21
347	Metal services, nec .....	19.4	22	19.9	22	20.8	22
348	Misc. fabricated wire products .....	14.9	25	14.9	25	15.3	25
349	Misc. fabricated metal products .....	30.9	19	33.1	20	34.3	20
3494,8	Valves, pipe, and pipe fittings .....	19.5	18	21.0	19	21.6	19
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	337.5	16	359.9	17	369.1	17
351	Engines and turbines .....	18.2	16	18.1	16	19.1	17
3511	Steam engines and turbines .....	5.3	12	5.4	12	5.4	13
3519	Internal combustion engines, nec .....	12.9	18	12.7	18	13.7	19
352	Farm machinery .....	17.7	12	18.4	12	18.9	13
353	Construction and related machinery .....	35.0	10	35.1	10	35.3	10
3531,2	Construction and mining machinery .....	16.5	9	16.1	9	16.0	9
3533	Oil field machinery .....	8.0	12	7.8	11	7.7	11
3535,6	Conveyors, hoists, cranes, monorails .....	5.2	11	5.5	11	5.7	12
3537	Industrial trucks and tractors .....	3.0	10	3.5	11	3.8	12
354	Metal working machinery .....	42.7	14	44.8	14	46.2	14
3541	Machine tools, metal cutting types .....	6.2	11	6.6	11	6.8	11
3544	Special dies, tools, jigs and fixtures .....	11.6	10	12.0	9	12.6	10
3545	Machine tool accessories .....	10.4	19	10.6	19	10.8	19
3542,8	Miscellaneous metal working machinery .....	14.5	20	15.6	21	16.0	21
355	Special industry machinery .....	23.0	13	24.2	14	24.4	14
3551	Food products machinery .....	4.7	12	4.9	12	5.0	12
3552	Textile machinery .....	5.3	17	5.4	18	5.5	18
3555	Printing trades machinery .....	3.4	14	3.8	15	3.9	15
356	General industrial machinery .....	48.5	17	52.1	18	52.9	18
3561	Pumps and compressors .....	12.0	15	12.9	15	13.3	16
3562	Ball and roller bearings .....	11.6	23	12.8	23	12.9	23
3564	Blowers and fans .....	6.4	19	6.9	19	6.9	20
3566	Power transmission equipment .....	7.2	15	7.2	15	7.3	15
357	Office and computing machines .....	82.3	29	91.9	30	93.9	30
3573	Electronic computing equipment .....	61.0	29	68.4	29	70.0	29
358	Service industry machines .....	30.7	19	31.8	19	32.6	19
3585	Refrigeration machinery .....	20.5	18	21.1	18	22.0	18
359	Miscellaneous machinery, except electrical .....	39.4	16	43.5	17	45.8	17

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	April 1976		January 1977		April 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<b>DURABLE GOODS – CONTINUED</b>							
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b> . . . . .	739.6	41	770.0	41	792.2	42
361	Electrical test and distributing equipment . . . . .	70.1	36	72.4	37	76.0	38
3611	Electric measuring instruments . . . . .	31.0	45	32.1	44	33.5	45
3612	Transformers . . . . .	14.7	30	14.7	31	16.6	33
3613	Switchgear and switchboard apparatus . . . . .	24.4	33	25.6	34	25.9	34
362	Electrical industrial apparatus . . . . .	75.3	36	80.4	37	84.1	38
3621	Motors and generators . . . . .	38.1	36	38.7	36	40.2	37
3622	Industrial controls . . . . .	27.3	42	30.6	44	31.8	45
363	Household appliances . . . . .	50.0	30.	54.3	32	60.2	34
3632	Household refrigerators and freezers . . . . .	7.5	19	8.3	24	9.0	24
3633	Household laundry equipment . . . . .	5.2	20	5.0	21	6.0	22
3634	Electric housewares and fans . . . . .	24.3	51	26.9	53	28.7	55
364	Electric lighting and wiring equipment . . . . .	86.3	45	89.5	45	92.7	45
3641	Electric lamps . . . . .	23.8	65	24.3	64	24.2	64
3642	Lighting fixtures . . . . .	23.0	36	23.3	36	24.1	36
3643,4	Wiring devices . . . . .	39.5	42	41.9	43	44.4	44
365	Radio and TV receiving equipment . . . . .	67.7	54	65.7	51	67.6	52
366	Communication equipment . . . . .	149.4	36	154.0	36	154.4	36
3661	Telephone and telegraph apparatus . . . . .	59.2	45	64.3	46	65.7	46
3662	Radio and TV communication equipment . . . . .	90.2	31	89.7	31	88.7	31
367	Electronic components and accessories . . . . .	194.7	53	203.1	53	205.0	53
3671,3	Electron tubes . . . . .	16.7	40	15.7	38	16.1	38
3674,9	Other electronic components . . . . .	178.0	55	187.4	55	188.9	55
369	Miscellaneous electrical equipment and supplies . . . . .	46.1	33	50.6	33	52.2	34
3694	Engine electrical equipment . . . . .	25.3	35	27.8	35	27.9	35
37	<b>TRANSPORTATION EQUIPMENT</b> . . . . .	213.7	12	227.4	13	238.3	13
371	Motor vehicles and equipment . . . . .	88.6	10	100.4	11	104.6	12
3711	Motor vehicles . . . . .	29.0	8	33.1	9	35.2	10
3712	Passenger car bodies . . . . .	3.3	7	5.5	11	5.6	12
3713	Truck and bus bodies . . . . .	3.7	10	4.2	11	4.6	11
3714	Motor vehicle parts and accessories . . . . .	51.2	13	56.1	14	57.5	14
3715	Truck trailers . . . . .	1.4	7	1.5	6	1.7	7
372	Aircraft and parts . . . . .	75.5	16	76.4	16	77.8	16
3721	Aircraft . . . . .	42.0	16	42.9	16	43.6	17
3722	Aircraft engines and engine parts . . . . .	18.7	14	18.4	14	18.9	14
3723,9	Other aircraft parts and equipment . . . . .	14.8	16	15.1	17	15.3	17
373	Ship and boat building and repairing . . . . .	18.9	9	21.3	10	22.2	10
3731	Ship building and repairing . . . . .	12.1	7	13.4	8	13.8	8
3732	Boat building and repairing . . . . .	6.8	14	7.9	16	8.4	16
374	Railroad equipment . . . . .	4.9	11	4.6	10	4.7	10
375,9	Other transportation equipment . . . . .	25.8	18	24.7	18	29.0	18
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> . . . . .	201.4	40	205.7	40	209.7	40
381	Engineering and scientific instruments . . . . .	16.6	28	16.8	29	17.0	29
382	Mechanical measuring and control devices . . . . .	47.4	40	47.5	40	48.0	40
3821	Mechanical measuring devices . . . . .	26.7	35	27.8	35	28.5	36
3822	Automatic temperature controls . . . . .	20.7	50	19.7	48	19.5	50
383,5	Optical and ophthalmic goods . . . . .	28.2	45	30.3	45	30.7	45
385	Ophthalmic goods . . . . .	21.6	52	22.1	50	22.6	51
384	Medical instruments and supplies . . . . .	55.1	51	57.5	51	59.2	51
386	Photographic equipment and supplies . . . . .	34.6	27	34.6	27	35.3	27
387	Watches, clocks, and watchcases . . . . .	19.5	64	19.0	64	19.5	64
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> . . . . .	191.3	46	182.9	45	191.1	46
391	Jewelry, silverware, and plated ware . . . . .	23.7	44	23.4	43	23.9	44
394	Toys and sporting goods . . . . .	59.4	52	56.7	52	62.7	53
3941,3	Games, toys, dolls, and play vehicles . . . . .	31.7	54	29.2	54	33.4	56
3949	Sporting and athletic goods, n e c . . . . .	27.7	49	27.5	50	29.3	50
395	Pens, pencils, office and art supplies . . . . .	19.2	55	18.7	57	18.9	56
396	Costume jewelry and notions . . . . .	29.6	54	27.3	54	27.2	54
393,9	Other manufacturing industries . . . . .	59.4	37	56.8	36	58.4	37
393	Musical instruments and parts . . . . .	11.0	44	9.6	41	9.7	41
<b>NONDURABLE GOODS</b>							
20	<b>FOOD AND KINDRED PRODUCTS</b> . . . . .	434.4	27	438.9	26	450.6	27
201	Meat products . . . . .	101.1	30	106.1	30	107.6	30
2011	Meat packing plants . . . . .	25.1	15	26.2	15	25.7	15
2013	Sausages and other prepared meats . . . . .	18.5	28	18.9	28	19.0	28
2015	Poultry dressing plants . . . . .	57.5	53	61.0	53	62.9	53
202	Dairy products . . . . .	36.4	19	35.9	19	36.9	19
2024	Ice cream and frozen desserts . . . . .	5.9	25	4.8	24	5.6	25

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	April 1976		January 1977		April 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<b>NONDURABLE GOODS — CONTINUED</b>							
<b>FOOD AND KINDRED PRODUCTS — Continued</b>							
2026	Fluid milk . . . . .	19.4	16	19.5	16	20.0	16
203	Canned, cured, and frozen foods . . . . .	107.6	42	97.9	40	106.5	41
2031,6	Canned, cured, and frozen sea foods . . . . .	24.4	56	21.1	54	24.3	55
2032,3	Canned food, except sea foods . . . . .	34.5	32	31.9	30	34.2	32
2037	Frozen fruits and vegetables . . . . .	32.3	49	28.1	47	32.1	49
204	Grain mill products . . . . .	23.8	17	25.5	17	25.6	18
2041	Flour and other grain mill products . . . . .	3.6	14	4.1	15	4.7	17
2042	Prepared feeds for animals and fowls . . . . .	12.0	17	12.2	16	11.7	16
205	Bakery products . . . . .	60.9	26	60.4	25	61.8	26
2051	Bread, cake, and related products . . . . .	41.6	21	41.5	21	42.5	21
2052	Cookies and crackers . . . . .	19.3	48	18.9	47	19.3	48
206	Sugar . . . . .	3.0	10	4.3	12	3.1	12
207	Confectionery and related products . . . . .	33.8	45	35.8	46	34.1	45
2071	Confectionery products . . . . .	26.1	48	27.4	48	26.1	48
208	Beverages . . . . .	30.6	15	33.7	15	34.3	15
2082	Malt liquors . . . . .	3.6	9	4.8	10	5.0	10
2086	Bottled and canned soft drinks . . . . .	14.2	11	14.6	11	15.1	11
209	Miscellaneous foods and kindred products . . . . .	37.2	26	39.3	27	40.7	28
21	<b>TOBACCO MANUFACTURES . . . . .</b>	25.4	37	28.1	38	24.0	36
211	Cigarettes . . . . .	14.6	32	14.2	32	13.9	31
212	Cigars . . . . .	7.5	69	6.6	67	6.5	69
22	<b>TEXTILE MILL PRODUCTS . . . . .</b>	450.9	46	445.5	47	458.9	47
221	Weaving mills, cotton . . . . .	73.3	42	73.5	42	72.9	42
222	Weaving mills, synthetics . . . . .	47.5	39	48.8	40	48.6	40
223	Weaving and finishing mills, wool . . . . .	8.5	38	8.8	38	9.0	38
224	Narrow fabric mills . . . . .	16.2	59	14.9	58	15.1	58
225	Knitting mills . . . . .	165.9	64	161.0	63	170.3	64
2251	Women's hosiery, except socks . . . . .	28.7	76	29.3	76	28.8	76
2252	Hosiery, n e c . . . . .	25.5	73	24.0	72	25.4	72
2253	Knit outerwear mills . . . . .	54.7	72	52.7	72	58.1	72
2254	Knit underwear mills . . . . .	27.6	70	27.6	70	28.8	71
226	Textile finishing, except wool . . . . .	23.6	28	23.1	29	24.1	29
227	Floor covering mills . . . . .	21.9	36	22.5	37	23.6	37
228	Yarn and thread mills . . . . .	74.4	48	73.2	48	75.6	48
229	Miscellaneous textile goods . . . . .	19.6	29	19.7	30	19.7	29
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS . . . . .</b>	1,067.3	81	1,007.8	81	1,039.9	81
231	Men's and boys' suits and coats . . . . .	66.5	76	67.6	77	67.4	77
232	Men's and boys' furnishings . . . . .	323.2	84	313.1	84	319.3	84
2321	Men's and boys' shirts and nightwear . . . . .	104.5	87	99.6	88	99.7	87
2327	Men's and boys' separate trousers . . . . .	72.0	82	69.3	82	70.3	81
2328	Men's and boys' work clothing . . . . .	77.3	83	77.7	82	79.7	82
233	Women's and misses' outerwear . . . . .	348.0	86	310.6	86	325.0	86
2331	Women's and misses' blouses and waists . . . . .	45.1	88	40.4	87	43.2	89
2335	Women's and misses' dresses . . . . .	158.8	88	134.9	87	148.2	87
2337	Women's and misses' suits and coats . . . . .	42.3	80	40.0	79	37.3	78
2339	Women's and misses' outerwear, n e c . . . . .	101.8	86	95.3	86	96.3	86
234	Women's and children's undergarments . . . . .	87.9	86	83.6	86	86.4	86
2341	Women's and children's underwear . . . . .	67.6	88	64.4	87	67.2	87
2342	Corsets and allied garments . . . . .	20.3	81	19.2	81	19.2	81
235	Hats, caps, and millinery . . . . .	11.5	73	11.8	75	12.3	75
236	Children's outerwear . . . . .	67.5	87	64.2	86	65.4	87
2361	Children's dresses and blouses . . . . .	28.4	90	27.1	89	27.2	89
237,8	Fur goods and miscellaneous apparel . . . . .	49.8	73	47.7	74	51.1	75
239	Miscellaneous fabricated textile products . . . . .	112.9	63	109.2	63	113.0	63
2391,2	Housefurnishings . . . . .	53.0	70	51.2	69	52.1	69
26	<b>PAPER AND ALLIED PRODUCTS . . . . .</b>	139.0	21	142.1	21	146.3	21
261,2,6	Paper and pulp mills . . . . .	22.2	11	23.0	12	23.5	12
263	Paperboard mills . . . . .	5.0	7	5.5	8	5.6	8
264	Miscellaneous converted paper products . . . . .	64.8	33	65.3	33	67.9	33
2643	Bags, except textile bags . . . . .	14.1	33	14.5	33	14.7	33
265	Paperboard containers and boxes . . . . .	47.0	23	48.3	23	49.3	23
2651,2	Folding and setup paperboard boxes . . . . .	18.1	31	17.9	31	18.0	30
2653	Corrugated and solid fiber boxes . . . . .	13.9	14	15.0	15	15.3	15
2654	Sanitary food containers . . . . .	9.7	31	10.0	33	10.6	33

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	April 1976		January 1977		April 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<b>NONDURABLE GOODS — CONTINUED</b>							
27	<b>PRINTING AND PUBLISHING</b>	378.4	35	386.1	35	395.1	36
271	Newspapers	122.7	32	127.3	33	127.6	33
272	Periodicals	35.4	51	37.1	52	36.9	52
273	Books	44.1	49	44.0	50	47.5	52
275	Commercial printing	104.9	29	103.7	29	107.5	29
2751	Commercial printing, ex. lithographic	59.4	29	59.1	29	60.7	30
2752	Commercial printing, lithographic	42.0	29	41.3	29	43.0	29
278	Blankbooks and bookbinding	25.2	51	25.3	51	26.2	51
274,6,7,9	Other publishing and printing ind.	46.1	36	48.7	37	49.4	37
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	221.3	21	228.1	22	235.0	22
281	Industrial chemicals	42.2	13	46.3	14	46.9	14
2812	Alkalies and chlorines	1.9	9	2.1	10	2.0	10
2818	Industrial organic chemicals, n e c	19.9	14	21.2	15	21.2	15
2819	Industrial inorganic chemicals, n e c	13.9	13	15.6	14	16.1	14
282	Plastics materials and synthetics	38.3	18	36.2	18	38.6	19
2821	Plastics materials and resins	8.8	10	9.0	10	9.9	11
2823,4	Synthetic fibers	28.6	26	26.2	26	27.6	27
283	Drugs	65.6	39	68.1	40	70.8	41
2834	Pharmaceutical preparations	54.4	41	56.6	41	58.9	43
284	Soap, cleaners, and toilet goods	43.4	38	45.3	37	45.9	38
2841	Soap and other detergents	7.1	21	8.4	21	8.3	21
2844	Toilet preparations	26.9	56	26.9	56	27.6	57
285	Paints and allied products	10.8	16	11.0	17	11.3	16
287	Agricultural chemicals	6.8	11	6.8	12	6.9	11
2871,2	Fertilizers, complete and mixing only	3.0	8	3.0	9	3.2	9
286,9	Other chemical products	14.2	18	14.4	18	14.6	18
2892	Explosives	2.5	16	2.2	17	2.3	17
29	<b>PETROLEUM AND COAL PRODUCTS</b>	20.0	10	21.5	11	23.0	11
291	Petroleum refining	15.0	10	16.2	10	17.6	11
295,9	Other petroleum and coal products	5.0	11	5.3	12	5.4	11
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b>	213.1	34	221.0	34	227.5	34
301	Tires and inner tubes	10.6	9	10.8	9	11.1	9
302,3,6	Other rubber products	60.0	37	63.2	37	62.7	36
302	Rubber footwear	13.9	60	13.6	62	13.0	62
307	Miscellaneous plastics products	142.5	41	147.0	41	153.7	41
31	<b>LEATHER AND LEATHER PRODUCTS</b>	168.4	61	157.3	60	160.4	60
311	Leather tanning and finishing	3.6	14	3.3	14	3.3	14
314	Footwear, except rubber	115.2	66	106.9	66	108.2	65
312,3,5,7,9	Other leather products	49.6	64	47.1	63	48.9	63
316	Luggage	11.7	65	9.6	59	10.9	59
317	Handbags and personal leather goods	25.3	71	24.9	71	24.4	71
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	979	22	1,006	22	1,023	23
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>	49.9	18	56.8	20	54.3	20
411	Local and suburban transportation	8.1	12	9.2	13	8.7	13
412	Taxicabs	4.9	6	5.8	8	6.0	8
413	Intercity highway transportation	4.3	11	4.6	12	4.3	11
42	<b>TRUCKING AND WAREHOUSING</b>	110.1	10	114.7	11	115.8	10
421,3	Trucking and trucking terminals	96.3	10	99.5	10	100.3	10
422	Public warehousing	13.8	17	15.2	17	15.5	17
45	<b>TRANSPORTATION BY AIR</b>	101.8	28	106.7	29	109.8	29
451,2	Air transportation	96.6	29	101.1	30	104.3	31
46	<b>PIPE LINE TRANSPORTATION</b>	1.5	9	1.4	9	1.5	9
44	<b>WATER TRANSPORTATION</b>	17.2	9	17.9	9	18.2	9
47	<b>TRANSPORTATION SERVICES</b>	35.6	24	41.1	27	45.4	29
48	<b>COMMUNICATION</b>	521.3	45	517.2	45	520.3	45
481	Telephone communication	461.4	49	457.5	49	459.7	49
483	Radio and television broadcasting	46.4	30	46.6	29	46.9	29
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	119.0	16	122.3	17	123.5	17
491	Electric companies and systems	50.2	16	51.4	16	51.7	16
492	Gas companies and systems	30.0	19	30.6	19	30.5	20



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	April 1976		January 1977		April 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<b>NONDURABLE GOODS — CONTINUED</b>							
<b>ELECTRIC, GAS, AND SANITARY SERVICES — Cont'd</b>							
493	Combination companies and systems	29.7	15	30.7	16	31.5	16
494.7	Water, steam, and sanitary systems	9.1	14	9.6	14	9.8	14
<b>WHOLESALE AND RETAIL TRADE</b>							
<b>WHOLESALE TRADE</b>							
50	Motor vehicles and automotive equipment	1,023	24	1,058	25	1,062	25
501	Drugs, chemicals, and allied products	79.2	21	83.0	21	83.6	21
502	Dry goods and apparel	83.7	35	82.4	34	83.3	34
503	Groceries and related products	76.5	49	77.2	49	77.9	49
504	Electrical goods	132.1	22	138.4	22	138.2	23
506	Hardware, plumbing and heating equipment	86.2	27	87.7	27	88.8	27
507	Machinery, equipment, and supplies	47.6	26	49.4	26	49.9	26
508	Miscellaneous wholesalers	182.5	21	191.5	21	195.4	21
509		308.6	23	317.1	23	318.1	23
<b>RETAIL TRADE</b>							
52-59	Retail general merchandise	6,283	47	6,401	47	6,461	47
53	Department stores	1,657.4	68	1,714.3	68	1,641.3	67
531	Mail order houses	1,140.5	69	1,189.4	68	1,124.9	67
532	Variety stores	70.3	62	70.9	64	66.2	63
533	Food stores	219.5	72	226.1	73	222.9	74
54	Grocery, meat, and vegetable stores	795.4	39	830.0	40	835.2	40
541-3	Apparel and accessory stores	682.0	37	714.6	37	717.1	38
56	Men's and boys' clothing and furnishings	540.9	67	548.2	67	536.4	66
561	Women's ready-to-wear stores	59.8	43	64.5	44	60.2	43
562	Family clothing stores	266.1	89	264.1	88	256.5	88
565	Shoe stores	86.9	70	92.6	71	91.0	73
566	Furniture and home furnishings stores	67.6	39	64.5	38	67.2	38
57	Furniture and home furnishings	160.7	31	165.2	30	166.2	31
571	Eating and drinking places	105.5	33	107.0	33	108.2	33
58	Other retail trade	2,041.9	57	2,024.5	57	2,164.7	57
52,55,59	Building materials and farm equipment	1,087.0	28	1,119.1	28	1,116.7	28
52	Automotive dealers and service stations	117.8	19	122.2	20	123.9	19
55	Motor vehicle dealers	257.3	15	258.0	15	258.8	15
551,2	Other automotive and accessory dealers	97.9	13	101.5	13	103.6	13
553,9	Miscellaneous retail stores	52.5	16	53.0	16	54.1	16
59	Drug stores and proprietary stores	711.9	47	738.9	47	734.0	47
591	Book and stationery stores	291.3	62	299.2	61	287.5	60
594	Farm and garden supply stores	39.1	49	41.8	49	40.6	49
596	Fuel and ice dealers	34.0	24	29.5	22	34.5	23
598		19.9	20	21.3	19	20.0	20
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>							
60	Banking	2,347	55	2,439	56	2,481	56
61	Credit agencies other than banks	865.7	67	893.3	68	901.1	68
612	Savings and loan associations	276.7	61	296.7	62	304.8	62
614	Personal credit institutions	126.9	70	139.2	71	143.1	71
62	Security, commodity brokers and services	100.0	51	104.9	53	108.2	54
62	Insurance carriers	61.9	35	62.8	35	65.2	36
63	Life insurance	606.9	55	631.3	56	639.4	56
631	Accident and health insurance	240.5	47	246.6	48	246.6	48
632	Fire, marine, and casualty insurance	86.7	72	88.2	72	88.9	72
633	Insurance agents, brokers, and service	241.8	59	255.3	60	260.7	61
64	Real estate	192.8	57	201.8	58	207.6	58
65	Subdividers and developers	284.1	36	295.0	36	303.5	36
655	Operative builders	27.5	24	28.2	26	30.3	26
656	Other finance, insurance, and real estate	11.8	21	11.8	21	12.5	20
66,67		59.3	51	58.1	51	58.9	51
<b>SERVICES</b>							
<b>Hotels and other lodging places:</b>							
701	Hotels, tourist courts, and motels	8,114	56	8,301	56	8,550	56
72	Personal services	453.9	54	426.7	53	453.5	53
721	Laundries and dry cleaning plants	519.6	63	500.4	62	506.2	63
722	Photographic studios	217.7	62	214.6	62	215.1	62
73	Miscellaneous business services	27.3	63	23.7	60	22.8	59
731	Advertising	761.1	37	807.4	37	824.9	37
732	Credit reporting and collection	55.1	45	59.0	46	60.5	46
734	Services to buildings	54.8	69	58.9	70	60.1	70
76	Miscellaneous repair services	161.5	40	166.6	40	164.5	39
78	Motion pictures	35.4	16	37.9	17	38.8	17
781	Motion picture filming and distributing	77.2	39	72.2	38	74.8	38
782,3	Motion picture theaters and services	23.5	40	23.7	39	23.2	39
		53.7	38	48.5	37	51.6	37

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

**B-3. Women employees on nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	April 1976		January 1977		April 1977	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<b>SERVICES — Continued</b>						
80	Medical and other health services . . . . .	3, 519. 8	80	3, 701. 6	81	3, 763. 5	81
906	Hospitals . . . . .	1, 882. 6	80	1, 955. 8	80	1, 977. 2	80
81	Legal services . . . . .	228. 3	64	247. 1	64	253. 7	65
82	Educational services . . . . .	672. 0	50	671. 4	52	710. 1	52
821	Elementary and secondary schools . . . . .	267. 2	63	272. 9	63	276. 4	62
822	Colleges and universities . . . . .	318. 2	43	305. 7	45	335. 7	46
99	Miscellaneous services . . . . .	252. 7	28	270. 8	29	279. 4	29
891	Engineering and architectural services . . . . .	66. 7	17	74. 9	18	79. 1	18
892	Nonprofit research agencies . . . . .	53. 3	36	56. 7	36	57. 9	36
	<b>GOVERNMENT . . . . .</b>	<b>6, 875</b>	<b>45</b>	<b>6, 878</b>	<b>46</b>	<b>7, 096</b>	<b>46</b>
91	<b>FEDERAL GOVERNMENT . . . . .</b>	<b>802</b>	<b>29</b>	<b>846</b>	<b>31</b>	<b>866</b>	<b>32</b>
92,93	<b>STATE AND LOCAL GOVERNMENT . . . . .</b>	<b>6, 073</b>	<b>49</b>	<b>6, 032</b>	<b>49</b>	<b>6, 230</b>	<b>50</b>
92	State government . . . . .	1, 454. 6	44	1, 472. 6	45	1, 524. 2	45
	State education . . . . .	631. 2	44	621. 6	44	653. 0	44
	Other State government . . . . .	823. 4	44	851. 0	45	871. 2	46
93	Local government . . . . .	4, 618. 8	51	4, 559. 8	50	4, 705. 6	51
	Local education . . . . .	3, 268. 0	63	3, 170. 3	61	3, 288. 5	62
	Other local government . . . . .	1, 350. 8	35	1, 389. 5	36	1, 417. 1	36

**ESTABLISHMENT DATA**  
**SEASONALLY ADJUSTED EMPLOYMENT**

**B-4. Indexes of employment on nonagricultural payrolls, by industry division, 1919 to date, monthly data seasonally adjusted**

[1967 = 100]

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Contract construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1919.....	41.1	55.1	184.8	31.8	54.8	33.5	87.1	33.2	-	-	34.4	22.4	23.5	-	-
1920.....	41.5	54.8	202.1	26.4	54.8	34.3	93.8	32.8	-	-	36.4	23.4	22.8	-	-
1925.....	43.7	53.6	177.7	45.1	51.1	38.3	89.8	41.0	-	-	38.2	28.4	24.6	-	-
1926.....	45.3	55.4	193.3	48.5	52.2	39.7	92.5	42.5	-	-	40.5	30.2	25.0	-	-
1927.....	45.5	54.7	181.7	50.1	51.4	40.5	91.4	43.4	-	-	42.4	31.4	25.6	-	-
1928.....	45.6	54.2	171.3	50.1	51.2	40.8	89.8	43.2	-	-	44.5	32.3	26.3	-	-
1929.....	47.6	57.1	177.3	46.7	55.0	42.4	91.9	45.0	-	-	46.8	34.1	26.9	19.6	29.2
1930.....	44.7	51.3	164.6	42.8	49.2	41.0	86.5	42.6	-	-	45.7	33.4	27.6	19.3	30.2
1931.....	40.5	44.1	142.4	37.8	42.0	38.5	76.4	38.8	-	-	43.6	31.5	28.6	20.6	31.2
1932.....	35.9	37.1	119.2	30.2	35.6	35.2	66.1	34.4	-	-	41.6	29.0	28.3	20.6	30.7
1933.....	36.0	38.5	121.4	25.2	38.0	34.7	62.7	34.9	-	-	40.2	28.4	27.8	20.8	30.0
1934.....	39.4	44.0	144.0	26.9	43.7	36.9	64.5	38.8	-	-	40.9	30.3	28.9	24.0	30.5
1935.....	41.1	46.8	146.3	28.4	46.6	38.0	65.4	39.9	-	-	41.4	31.1	30.5	27.7	31.4
1936.....	44.2	51.2	154.3	35.7	50.5	40.3	69.8	42.7	-	-	43.0	32.9	32.2	30.4	32.7
1937.....	47.1	55.5	165.6	34.7	55.5	42.5	73.6	46.0	-	-	44.4	34.8	33.0	30.6	33.7
1938.....	44.4	48.9	145.4	32.9	48.5	41.8	67.2	45.4	-	-	44.2	34.4	34.1	30.5	35.2
1939.....	46.5	52.8	139.3	35.8	52.9	43.1	68.9	47.2	47.8	47.0	45.3	34.8	35.1	33.3	35.6
1940.....	49.2	56.7	150.9	40.3	56.5	45.0	71.3	49.6	49.8	49.6	46.6	36.4	36.9	36.6	36.9
1941.....	55.5	68.5	156.1	55.8	67.8	48.4	76.8	53.0	53.1	53.0	48.0	38.8	40.9	49.3	38.3
1942.....	60.9	79.3	161.8	67.6	78.6	50.9	81.2	52.3	51.7	52.5	47.7	40.4	48.1	81.4	37.7
1943.....	64.5	86.4	150.9	48.8	90.5	52.5	85.6	51.3	49.4	52.0	46.6	41.1	53.3	106.8	36.6
1944.....	63.6	83.0	145.5	34.1	89.1	53.0	89.9	51.9	50.0	52.5	45.8	41.2	53.0	107.7	35.9
1945.....	61.3	75.2	136.4	35.3	79.8	53.8	91.7	53.8	52.8	54.1	46.4	42.0	52.1	103.3	36.1
1946.....	63.3	74.0	140.6	51.8	75.6	57.4	95.3	61.6	62.1	61.4	52.6	46.7	49.1	82.9	38.5
1947.....	66.6	79.4	155.8	61.8	79.9	59.6	97.8	65.8	67.0	65.4	54.4	50.0	48.0	69.6	41.3
1948.....	68.2	80.6	162.2	67.6	80.1	61.4	98.3	68.1	70.6	67.3	56.7	51.5	49.6	68.5	43.6
1949.....	66.5	75.4	151.7	67.5	74.3	61.6	93.9	68.1	70.6	67.2	57.6	52.1	51.4	70.2	45.5
1950.....	68.7	79.4	147.0	72.7	78.4	62.8	94.7	69.0	71.4	68.1	59.5	53.3	52.9	70.9	47.2
1951.....	72.7	85.6	151.5	81.1	84.3	65.6	99.2	71.6	73.9	70.8	61.7	55.2	56.1	84.7	47.1
1952.....	74.1	86.7	146.5	82.1	85.5	67.3	99.7	73.5	76.2	72.6	64.2	56.7	58.0	89.0	48.3
1953.....	76.3	90.4	141.3	81.8	90.2	68.6	100.7	75.3	77.4	74.6	66.5	58.1	58.3	84.8	50.0
1954.....	74.4	84.7	129.0	81.4	83.9	68.8	95.8	75.2	77.7	74.4	69.3	59.4	59.2	80.5	52.6
1955.....	76.9	88.0	129.2	87.3	86.8	70.9	97.2	77.4	79.3	76.8	72.4	62.1	60.7	80.4	54.5
1956.....	79.6	90.5	134.1	93.5	88.7	73.6	99.6	79.8	81.8	79.1	75.3	64.7	63.8	81.2	58.4
1957.....	80.3	89.9	135.1	91.1	88.3	75.1	99.5	80.0	82.1	79.3	76.8	66.8	66.8	81.5	62.2
1958.....	78.0	83.7	122.5	86.6	82.0	74.9	93.3	79.0	80.8	78.4	78.1	67.4	68.8	80.6	65.1
1959.....	81.0	87.5	119.4	92.3	85.7	77.4	94.1	81.8	83.6	81.2	80.4	70.6	70.9	82.1	67.4
1960.....	82.4	87.6	116.2	89.9	86.4	79.5	94.0	83.7	85.2	83.2	82.8	73.5	73.3	83.5	70.1
1961.....	82.1	85.2	109.6	87.8	84.0	80.4	91.6	83.3	84.9	82.8	84.7	75.9	75.4	83.8	72.8
1962.....	84.4	87.7	106.0	90.5	86.7	82.6	91.7	85.0	86.7	84.4	86.8	79.5	78.0	86.1	75.5
1963.....	86.1	88.5	103.6	92.4	87.4	84.8	91.6	86.6	88.1	86.1	89.2	82.4	80.9	86.7	79.1
1964.....	88.6	90.1	103.4	95.1	88.8	87.8	92.7	89.4	90.5	89.0	91.7	86.2	84.2	86.4	83.5
1965.....	92.3	94.0	103.1	99.3	92.9	91.4	94.7	93.5	94.0	93.3	93.7	90.0	88.4	87.5	88.7
1966.....	97.1	99.3	102.3	102.1	98.8	95.9	97.4	97.3	97.5	97.3	96.1	94.6	94.7	94.3	94.8
1967.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	103.2	101.8	98.9	103.1	101.7	103.9	101.2	103.6	102.4	104.0	104.8	105.2	103.9	100.7	105.0
1969.....	107.0	104.5	101.0	109.9	103.7	108.3	104.1	108.1	105.9	108.8	110.4	111.2	107.1	101.4	108.8
1970.....	107.7	101.0	101.6	110.2	99.5	111.3	105.7	110.5	108.3	111.3	114.3	115.1	110.2	100.4	113.3
1971.....	108.1	98.1	99.3	113.4	95.5	113.6	104.6	112.8	108.5	114.4	117.9	117.9	113.1	99.2	117.4
1972.....	111.9	101.2	102.0	119.4	98.2	117.8	106.0	117.4	111.9	119.4	122.3	122.7	117.0	98.7	122.8
1973.....	116.8	106.3	105.1	125.2	103.2	122.5	109.0	122.5	116.5	124.7	126.9	128.9	120.5	97.9	127.6
1974.....	119.1	106.1	113.2	123.3	103.1	126.1	110.2	125.1	119.8	126.9	130.5	134.8	124.4	100.2	132.0
1975.....	117.0	97.1	121.5	109.5	94.3	127.8	105.6	124.9	118.5	127.2	130.9	138.7	129.1	101.1	138.0
1976.....	120.6	100.3	127.7	112.0	97.5	131.7	105.8	130.0	120.9	133.2	133.8	145.0	131.1	100.5	140.7
July.....	120.7	100.3	129.0	112.5	97.4	131.9	105.8	130.4	121.2	133.6	133.7	144.8	131.1	100.1	140.9
Aug.....	120.9	100.2	122.7	111.6	97.6	132.2	105.6	130.6	121.2	133.8	133.7	145.6	131.4	100.5	141.1
Sept.....	121.4	100.8	130.2	111.1	98.2	132.6	106.3	131.1	121.5	134.5	134.5	146.1	131.2	100.3	140.8
Oct.....	121.2	100.2	130.5	111.7	97.4	132.7	105.7	131.0	121.8	134.2	135.2	146.4	131.5	100.4	141.2
Nov.....	121.6	100.9	131.3	112.8	98.0	132.9	106.1	130.9	121.7	134.1	135.8	147.3	131.9	100.6	141.7
Dec.....	122.0	101.0	131.8	112.4	98.2	133.5	106.9	131.5	122.1	134.8	136.5	147.9	132.0	100.0	142.0
1977:															
Jan.....	122.3	101.4	133.3	111.0	98.8	133.8	106.8	132.2	122.6	135.5	137.1	148.6	131.7	100.1	141.6
Feb.....	122.7	101.9	134.3	113.6	98.9	134.1	106.9	132.8	123.0	136.2	137.4	149.2	131.6	100.1	141.5
Mar.....	123.6	103.2	137.4	117.2	99.8	134.8	107.2	133.7	123.5	137.2	138.1	150.0	131.9	100.2	141.8
Apr.....	124.0	104.1	138.2	119.8	100.4	134.9	107.4	133.8	124.0	137.2	138.4	150.3	132.0	100.0	142.0
May.....	124.4	104.5	137.8	120.4	100.8	135.3	107.6	134.0	124.4	137.4	138.9	150.5	132.6	100.1	142.8
June <sup>p</sup> .....	124.7	104.7	139.5	120.9	100.9	135.6	107.4	134.0	124.1	137.4	139.2	150.9	133.5	100.6	143.8
July <sup>p</sup> .....	125.0	105.0	133.9	122.0	101.2	136.0	107.6	134.4	124.4	137.9	139.7	151.5	133.8	100.4	144.2

p = preliminary.

NOTE: Data include Alaska and Hawaii beginning 1959. This inclusion has resulted in an

increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED EMPLOYMENT**

**B-5. Employees on nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted**

[In thousands]

Industry division and group	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>P</sup>	July <sup>P</sup>
<b>TOTAL</b> .....	79,513	79,618	79,918	79,819	80,106	80,344	80,561	80,824	81,395	81,686	81,921	82,095	82,351
<b>GOODS-PRODUCING</b> .....	23,344	23,310	23,463	23,323	23,489	23,508	23,589	23,701	24,005	24,217	24,306	24,351	24,424
<b>MINING</b> .....	791	752	798	800	805	808	817	823	842	847	845	855	821
<b>CONTRACT CONSTRUCTION</b> .....	3,608	3,579	3,565	3,582	3,619	3,605	3,561	3,645	3,759	3,842	3,861	3,877	3,913
<b>MANUFACTURING</b> .....	18,945	18,979	19,100	18,941	19,065	19,095	19,211	19,233	19,404	19,528	19,600	19,619	19,690
<b>DURABLE GOODS</b> .....	11,034	11,083	11,146	11,018	11,128	11,158	11,236	11,230	11,370	11,423	11,469	11,490	11,527
Ordnance and accessories .....	156	157	156	155	156	156	156	156	156	156	157	157	153
Lumber and wood products .....	605	605	613	613	621	626	625	626	633	639	638	638	643
Furniture and fixtures .....	490	486	495	491	491	493	494	497	503	507	509	510	515
Stone, clay, and glass products .....	631	628	630	630	636	629	631	620	641	651	654	658	663
Primary metal industries .....	1,206	1,215	1,216	1,194	1,186	1,182	1,183	1,178	1,199	1,208	1,217	1,218	1,218
Fabricated metal products .....	1,387	1,394	1,404	1,387	1,396	1,404	1,413	1,416	1,432	1,433	1,447	1,451	1,460
Machinery, except electrical .....	2,084	2,090	2,115	2,078	2,106	2,107	2,125	2,134	2,142	2,150	2,165	2,168	2,192
Electrical equipment and supplies .....	1,815	1,843	1,848	1,849	1,860	1,863	1,874	1,888	1,906	1,919	1,931	1,932	1,936
Transportation equipment .....	1,728	1,737	1,737	1,695	1,749	1,766	1,790	1,766	1,808	1,808	1,802	1,810	1,801
Instruments and related products .....	512	510	512	511	514	517	521	524	526	526	526	528	529
Miscellaneous manufacturing .....	420	418	420	415	413	415	424	425	424	425	423	420	417
<b>NONDURABLE GOODS</b> .....	7,911	7,896	7,954	7,923	7,937	7,937	7,975	8,003	8,034	8,105	8,131	8,129	8,163
Food and kindred products .....	1,719	1,715	1,711	1,706	1,711	1,710	1,721	1,727	1,734	1,743	1,735	1,733	1,727
Tobacco manufactures .....	80	78	76	76	75	75	74	73	68	73	71	72	71
Textile mill products .....	970	969	971	961	960	957	958	964	973	981	988	987	1,000
Apparel and other textile products .....	1,299	1,292	1,281	1,273	1,276	1,271	1,278	1,280	1,283	1,291	1,298	1,307	1,314
Paper and allied products .....	680	679	681	677	680	680	684	688	688	697	703	701	704
Printing and publishing .....	1,082	1,082	1,086	1,087	1,089	1,089	1,090	1,095	1,097	1,102	1,109	1,110	1,114
Chemicals and allied products .....	1,037	1,040	1,035	1,032	1,038	1,041	1,044	1,050	1,051	1,060	1,063	1,061	1,068
Petroleum and coal products .....	201	202	202	202	203	204	205	205	207	211	210	210	210
Rubber and plastics products, nec .....	572	572	643	645	642	647	656	656	666	680	685	681	684
Leather and leather products .....	271	267	268	264	263	263	265	265	267	267	269	267	271
<b>SERVICE-PRODUCING</b> .....	56,169	56,308	56,455	56,496	56,617	56,836	56,972	57,123	57,390	57,469	57,615	57,744	57,927
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,508	4,501	4,528	4,506	4,519	4,553	4,549	4,553	4,568	4,575	4,586	4,576	4,583
<b>WHOLESALE AND RETAIL TRADE</b> ..	17,737	17,764	17,839	17,824	17,808	17,898	17,981	18,067	18,189	18,203	18,235	18,227	18,285
<b>WHOLESALE TRADE</b> .....	4,271	4,272	4,283	4,292	4,291	4,304	4,323	4,334	4,354	4,371	4,384	4,373	4,386
<b>RETAIL TRADE</b> .....	13,466	13,492	13,556	13,532	13,517	13,594	13,658	13,733	13,835	13,832	13,851	13,854	13,899
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,312	4,312	4,338	4,359	4,381	4,403	4,423	4,431	4,453	4,463	4,480	4,488	4,506
<b>SERVICES</b> .....	14,664	14,751	14,798	14,819	14,873	14,936	15,010	15,068	15,149	15,182	15,197	15,241	15,305
Hotels and other lodging places .....	1,060	1,061	1,068	1,069	1,071	1,090	1,099	1,084	1,090	1,092	1,071	1,057	-
Personal services .....	823	823	817	814	809	808	808	807	809	809	805	804	-
Medical and other health services .....	4,417	4,476	4,505	4,519	4,548	4,577	4,584	4,603	4,629	4,658	4,681	4,722	-
Educational services .....	1,248	1,252	1,266	1,283	1,277	1,271	1,269	1,282	1,288	1,290	1,287	1,286	-
<b>GOVERNMENT</b> .....	14,948	14,980	14,952	14,988	15,036	15,046	15,009	15,004	15,031	15,046	15,117	15,212	15,248
<b>FEDERAL</b> .....	2,723	2,732	2,728	2,730	2,734	2,720	2,721	2,721	2,725	2,719	2,723	2,735	2,730
<b>STATE AND LOCAL</b> .....	12,225	12,248	12,224	12,258	12,302	12,326	12,288	12,283	12,306	12,327	12,394	12,477	12,518

p = preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED EMPLOMENT**

**B-6. Production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls,  
by industry division and major manufacturing group, seasonally adjusted**

[In thousands]

Industry division and group	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>P</sup>	July <sup>P</sup>
<b>TOTAL</b> .....	53,104	53,151	53,474	53,309	53,498	53,672	53,813	54,065	54,534	54,771	54,911	54,900	55,088
<b>GOODS-PRODUCING</b> .....	17,085	17,029	17,180	17,032	17,172	17,158	17,190	17,287	17,568	17,771	17,858	17,876	17,938
<b>MINING</b> .....	599	561	605	605	612	613	609	617	637	640	637	644	613
<b>CONTRACT CONSTRUCTION</b> .....	2,868	2,841	2,826	2,852	2,885	2,854	2,780	2,860	2,973	3,065	3,076	3,088	3,125
<b>MANUFACTURING</b> .....	13,618	13,627	13,749	13,575	13,675	13,691	13,801	13,810	13,958	14,066	14,145	14,144	14,200
<b>DURABLE GOODS</b> .....	7,878	7,911	7,975	7,833	7,929	7,955	8,026	8,011	8,128	8,177	8,233	8,241	8,280
Ordnance and accessories .....	71	71	70	69	69	70	70	70	69	72	73	73	72
Lumber and wood products .....	507	507	515	515	522	528	529	531	538	543	543	544	548
Furniture and fixtures .....	401	398	408	403	403	406	403	408	413	418	420	420	424
Stone, clay, and glass products .....	503	499	503	501	506	500	501	488	510	519	522	526	532
Primary metal industries .....	952	956	959	934	926	923	923	917	938	944	954	953	957
Fabricated metal products .....	1,045	1,051	1,062	1,044	1,051	1,059	1,069	1,071	1,083	1,085	1,099	1,103	1,108
Machinery, except electrical .....	1,347	1,350	1,370	1,329	1,357	1,358	1,373	1,378	1,384	1,387	1,407	1,407	1,433
Electrical equipment and supplies .....	1,199	1,222	1,224	1,224	1,232	1,231	1,237	1,250	1,265	1,277	1,289	1,289	1,289
Transportation equipment .....	1,219	1,228	1,230	1,186	1,236	1,251	1,278	1,251	1,281	1,284	1,278	1,282	1,275
Instruments and related products .....	314	311	312	311	312	315	318	320	321	322	323	323	324
Miscellaneous manufacturing .....	320	318	322	317	315	314	325	327	326	326	325	321	318
<b>NONDURABLE GOODS</b> .....	5,740	5,716	5,774	5,742	5,746	5,736	5,775	5,799	5,830	5,889	5,912	5,903	5,920
Food and kindred products .....	1,177	1,168	1,164	1,159	1,161	1,156	1,169	1,175	1,183	1,190	1,183	1,181	1,168
Tobacco manufactures .....	67	65	63	63	63	62	60	60	56	60	57	58	56
Textile mill products .....	847	845	848	838	835	833	835	840	848	856	863	861	871
Apparel and other textile products .....	1,115	1,109	1,100	1,091	1,093	1,089	1,096	1,098	1,100	1,108	1,115	1,122	1,128
Paper and allied products .....	516	514	515	512	515	514	517	517	517	524	529	527	530
Printing and publishing .....	630	629	632	632	632	631	631	635	635	639	644	641	642
Chemicals and allied products .....	591	595	589	588	590	590	594	601	602	608	612	611	614
Petroleum and coal products .....	130	130	130	131	132	132	133	132	135	138	138	138	140
Rubber and plastics products, nec .....	433	432	504	502	501	505	513	514	525	537	540	535	537
Leather and leather products .....	234	229	229	226	224	224	227	227	229	229	231	229	234
<b>SERVICE-PRODUCING</b> .....	36,019	36,122	36,294	36,277	36,326	36,514	36,623	36,778	36,966	37,000	37,053	37,024	37,150
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	3,859	3,854	3,877	3,856	3,861	3,900	3,882	3,878	3,890	3,897	3,907	3,896	3,895
<b>WHOLESALE AND RETAIL TRADE</b> .....	15,668	15,700	15,771	15,761	15,734	15,792	15,876	15,974	16,071	16,077	16,109	16,075	16,117
<b>WHOLESALE TRADE</b> .....	3,532	3,534	3,547	3,554	3,553	3,562	3,572	3,584	3,602	3,618	3,630	3,613	3,617
<b>RETAIL TRADE</b> .....	12,136	12,166	12,224	12,207	12,181	12,230	12,304	12,390	12,466	12,459	12,479	12,462	12,500
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,288	3,289	3,309	3,325	3,345	3,364	3,374	3,382	3,396	3,402	3,410	3,415	3,426
<b>SERVICES</b> .....	13,204	13,279	13,337	13,335	13,386	13,458	13,491	13,544	13,609	13,624	13,627	13,638	13,712

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

p=preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED EMPLOYMENT**

**B-7. Indexes of diffusion: Percent of industries in which employment<sup>1</sup> increased, 1974 to date**

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
<b>1974</b>				
January .....	58.7	61.6	64.8	63.1
February .....	55.8	55.2	56.4	59.6
March .....	48.0	54.7	54.7	54.9
April .....	54.7	52.3	51.5	50.0
May .....	54.7	57.0	50.3	40.1
June .....	54.4	50.9	44.5	28.2
July .....	49.1	44.2	35.8	26.7
August .....	42.2	36.0	32.0	22.1
September .....	32.6	35.5	21.8	20.6
October .....	35.5	26.2	15.7	18.6
November .....	19.8	21.8	16.0	16.6
December .....	19.8	12.8	13.7	14.0
<b>1975</b>				
January .....	16.9	12.5	13.7	16.3
February .....	16.9	14.0	12.8	17.4
March .....	27.3	22.7	18.9	17.2
April .....	44.2	34.6	29.1	20.3
May .....	51.2	43.6	40.7	25.6
June .....	39.8	47.7	59.0	40.1
July .....	57.3	55.5	63.4	50.3
August .....	72.4	75.0	66.6	61.9
September .....	81.4	78.8	72.4	71.5
October .....	64.0	70.6	78.8	75.9
November .....	59.6	69.2	79.4	79.1
December .....	69.2	75.0	77.6	81.4
<b>1976</b>				
January .....	76.7	82.0	82.8	84.6
February .....	74.4	84.3	83.1	82.8
March .....	77.9	84.9	77.0	79.4
April .....	77.9	81.1	77.0	73.5
May .....	63.4	70.6	71.5	79.7
June .....	47.1	57.0	70.9	79.4
July .....	52.9	47.4	55.2	75.3
August .....	49.1	65.1	55.2	74.1
September .....	68.9	54.9	61.9	78.2
October .....	39.0	59.9	70.1	76.5
November .....	64.2	53.8	69.8	75.0
December .....	68.3	75.9	76.7	75.9 p
<b>1977</b>				
January .....	71.5	76.7	88.4	80.5 p
February .....	61.6	84.6	86.6	
March .....	79.7	86.0	84.3 p	
April .....	79.1	83.7	82.3 p	
May .....	68.9	74.1 p		
June .....	54.7 p	66.0 p		
July .....	72.1 p			
August .....				
September .....				
October .....				
November .....				
December .....				

<sup>1</sup> Number of employees, seasonally adjusted, on payrolls of 172 private nonagricultural industries.  
p = preliminary.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division**

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
1 ALABAMA	1,208.0	1,250.2	1,264.4	14.1	15.0	15.3	70.7	72.4	75.4	341.3	350.8	355.5
2 Birmingham	320.1	326.6	330.7	8.5	8.6	8.7	21.2	20.9	22.3	66.3	65.5	67.6
3 Huntsville	105.4	105.6	106.1	(1)	(1)	(1)	3.8	3.6	3.9	29.7	30.6	30.8
4 Mobile	136.3	134.3	135.2	(1)	(1)	(1)	11.8	10.5	10.8	28.1	26.3	26.0
5 Montgomery	90.3	90.3	91.3	(1)	(1)	(1)	6.2	5.8	6.0	13.8	14.2	14.3
6 Tuscaloosa	45.4	48.5	47.5	.7	.8	.9	3.3	3.2	3.4	9.5	10.5	10.6
7 ALASKA	183.2	154.6	159.0	3.9	5.0	5.4	35.4	17.6	18.1	12.0	11.3	13.5
8 ARIZONA	755.5	787.0	778.6	24.3	25.5	25.8	42.4	46.9	47.5	106.5	110.7	111.7
9 Phoenix	446.4	470.9	464.9	.5	.5	.5	24.2	27.7	28.1	77.5	81.8	82.4
10 Tucson	148.4	151.8	150.0	7.5	8.2	8.3	9.4	9.7	9.7	12.5	13.0	13.1
11 ARKANSAS	663.4	692.0	700.7	4.8	5.1	5.2	35.6	36.0	37.2	199.3	209.1	213.2
12 Fayetteville-Springdale	50.6	55.1	53.9	(1)	(1)	(1)	2.6	2.9	2.8	15.8	16.7	16.6
13 Fort Smith	60.0	63.0	62.6	.5	.5	.5	2.6	2.6	2.6	21.9	23.5	23.9
14 Little Rock-North Little Rock	158.0	162.9	164.9	(1)	(1)	(1)	8.2	9.5	9.8	29.2	30.2	30.7
15 Pine Bluff	25.7	27.1	26.4	(1)	(1)	(1)	1.2	1.1	1.2	5.7	6.1	6.1
16 CALIFORNIA	8,176.8	8,467.1	8,565.7	35.1	35.7	36.1	319.5	360.9	377.0	1,650.1	1,680.7	1,688.1
17 Anaheim-Santa Ana-Garden Grove	607.0	638.4	646.7	1.9	2.0	2.0	29.3	37.9	39.2	161.2	164.8	166.2
18 Bakersfield	109.5	110.5	112.0	8.7	8.8	8.9	4.5	4.6	4.7	8.9	8.9	8.8
19 Fresno	157.5	161.3	164.4	.8	.7	.8	7.9	8.5	8.8	20.8	21.6	22.0
20 Los Angeles-Long Beach	3,115.5	3,217.6	3,246.1	11.3	11.4	11.4	97.3	101.3	105.4	795.2	819.8	823.6
21 Modesto	72.6	76.0	77.1	.1	.1	.1	4.5	4.8	5.0	15.6	15.9	16.0
22 Oxnard-Simi Valley-Ventura	118.1	119.7	120.3	2.0	2.1	2.1	4.9	4.7	4.6	17.7	17.9	17.9
23 Riverside-San Bernardino-Ontario	347.6	354.9	356.8	2.3	2.3	2.4	13.9	13.9	14.4	54.2	53.6	53.9
24 Sacramento	333.7	346.4	349.5	.3	.3	.3	15.2	15.3	16.1	22.9	23.5	23.5
25 Salinas-Seaside-Monterey	76.1	78.8	79.7	.6	.6	.6	2.8	2.9	3.1	8.0	9.8	9.4
26 San Diego	497.0	513.9	516.0	.8	.8	.8	26.5	29.2	29.7	72.9	72.8	73.4
27 San Francisco-Oakland	1,357.9	1,384.6	1,393.6	2.2	2.3	2.3	58.9	59.6	61.1	185.9	184.2	186.1
28 San Jose	493.6	508.3	513.5	.1	.1	.1	17.6	18.0	19.0	162.4	164.8	167.0
29 Santa Barbara-Santa Maria-Lompoc	103.5	105.0	105.2	1.0	1.0	1.0	3.5	3.5	3.5	13.5	14.4	14.3
30 Santa Rosa	69.2	71.5	72.3	.4	.4	.4	3.7	3.9	4.0	9.9	9.8	10.0
31 Stockton	104.0	106.5	106.5	.1	.1	.1	3.9	4.0	4.2	18.1	18.4	18.4
32 Vallejo-Fairfield-Napa	86.1	86.8	88.6	.2	.2	.2	3.4	2.9	3.2	8.6	7.9	8.4
33 COLORADO	991.8	999.3	1,007.4	20.0	21.9	22.7	57.8	58.0	60.9	140.5	142.6	143.9
34 Denver-Boulder	624.6	633.0	635.6	8.1	9.0	9.5	37.6	39.1	40.7	95.0	97.3	98.3
35 CONNECTICUT	1,255.2	1,257.3	1,273.3	(3)	(3)	(3)	43.4	40.8	43.1	400.8	399.1	405.6
36 Bridgeport	147.2	146.0	147.1	(3)	(3)	(3)	4.1	3.8	4.1	57.7	59.0	59.5
37 Hartford	343.6	345.7	348.7	(3)	(3)	(3)	11.6	9.6	10.2	84.7	83.0	84.4
38 New Britain	53.2	55.9	56.6	(3)	(3)	(3)	1.9	2.0	2.2	24.6	26.4	26.6
39 New Haven-West Haven	174.6	172.8	173.8	(3)	(3)	(3)	5.8	4.9	5.1	43.9	43.0	43.4
40 Stamford	92.9	92.8	95.1	(3)	(3)	(3)	3.4	3.3	3.4	28.5	27.7	27.7
41 Waterbury	79.2	82.9	83.5	(3)	(3)	(3)	2.6	2.1	2.3	30.5	33.4	33.2
42 DELAWARE	239.2	236.6	238.7	(1)	(1)	(1)	14.8	14.6	15.0	69.8	68.3	69.1
43 Wilmington	207.5	207.6	208.9	(1)	(1)	(1)	12.4	13.3	13.6	65.2	64.0	64.5
44 DISTRICT OF COLUMBIA	578.2	576.7	580.9	(1)	(1)	(1)	17.0	17.9	18.2	15.5	15.4	15.5
45 Washington SMSA	1,380.6	1,384.8	1,401.5	(1)	(1)	(1)	73.4	73.3	76.5	49.3	50.0	50.2
46 FLORIDA	2,759.7	2,882.4	2,863.3	9.2	9.5	9.5	163.9	177.2	182.4	342.6	356.4	359.4
47 Fort Lauderdale-Hollywood	238.1	243.6	242.1	(1)	(1)	(1)	16.1	17.6	18.1	25.0	27.3	27.7
48 Jacksonville	257.1	260.9	262.7	(1)	(1)	(1)	14.5	14.9	15.2	28.3	29.3	29.8
49 Miami	580.8	589.7	586.7	(1)	(1)	(1)	23.4	23.3	23.9	85.5	86.7	88.1
50 Orlando	213.3	215.2	215.3	(1)	(1)	(1)	11.5	11.7	11.8	25.6	26.0	25.8
51 Pensacola	86.6	91.2	90.3	(1)	(1)	(1)	6.3	6.9	7.1	13.8	13.9	14.1
52 Tampa-St. Petersburg	419.5	424.8	421.3	(1)	(1)	(1)	28.3	26.8	27.2	56.9	58.4	58.3
53 West Palm Beach-Boca Raton	140.8	149.1	146.9	(1)	(1)	(1)	9.5	9.7	9.9	17.6	19.4	19.3
54 GEORGIA	1,852.8	1,918.1	1,928.0	7.0	7.2	7.4	85.9	96.5	98.3	483.6	490.0	494.7
55 Atlanta	773.2	792.8	793.9	(1)	(1)	(1)	33.0	33.6	33.8	126.3	128.1	128.5
56 Augusta	106.1	109.6	111.0	(1)	(1)	(1)	6.2	7.7	8.2	34.4	35.5	35.7
57 Columbus	75.9	75.8	76.4	(1)	(1)	(1)	4.6	4.1	4.4	20.0	20.7	20.8
58 Macon	92.8	93.7	93.5	(1)	(1)	(1)	5.2	6.1	5.9	16.6	16.5	16.5
59 Savannah	76.8	79.0	78.8	(1)	(1)	(1)	4.7	5.1	5.1	16.0	16.0	16.3
60 HAWAII	347.8	347.7	351.6	(1)	(1)	(1)	23.8	22.3	22.5	26.4	24.2	26.6
61 Honolulu	293.1	292.5	295.9	(1)	(1)	(1)	20.1	19.0	19.2	19.6	18.0	20.1

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	
62.3	66.1	66.8	244.6	253.3	255.0	52.7	54.2	54.6	175.8	181.5	182.0	246.5	256.9	259.8	1
23.9	24.7	25.0	77.4	78.9	78.9	20.6	20.9	21.0	56.1	56.9	57.0	46.1	50.2	50.2	2
2.3	2.4	2.3	19.8	20.0	20.1	2.9	2.9	2.9	15.6	15.4	15.6	31.3	30.7	30.5	3
10.0	10.2	10.2	32.5	32.9	33.1	6.1	6.3	6.3	26.4	26.3	26.4	21.4	21.8	22.4	4
4.3	4.2	4.3	20.8	20.8	21.0	5.2	5.3	5.3	16.6	16.7	16.8	23.4	23.3	23.6	5
1.8	1.8	1.8	8.3	9.0	9.0	1.5	1.6	1.5	4.9	4.8	5.0	15.4	16.8	15.3	6
16.7	15.7	16.3	29.5	26.4	26.9	7.3	7.4	7.6	30.4	25.5	25.3	48.0	45.7	45.9	7
39.6	40.3	40.5	183.2	188.5	187.4	42.6	43.9	44.2	143.8	146.6	148.0	173.1	184.6	173.5	8
23.6	24.3	24.4	117.5	122.8	121.9	32.7	33.9	34.1	85.4	89.6	88.9	85.0	90.3	84.6	9
7.7	7.6	7.6	33.1	33.5	33.0	5.9	6.0	6.0	29.7	30.4	30.3	42.6	43.4	42.0	10
38.0	38.4	38.6	142.3	147.4	148.6	28.3	29.7	30.3	94.8	98.1	99.8	120.3	128.2	127.8	11
3.0	2.9	2.9	12.0	12.8	13.1	2.0	1.9	2.0	7.0	7.5	7.4	8.2	10.4	9.1	12
3.2	3.2	3.3	13.1	13.5	13.5	2.1	2.2	2.2	10.0	10.3	10.4	6.6	7.2	6.2	13
11.1	11.1	11.1	36.9	37.5	37.8	11.2	12.0	12.2	28.4	28.5	29.3	33.0	34.1	34.0	14
3.4	3.4	3.4	5.5	5.4	5.4	1.1	1.2	1.2	4.0	4.0	4.1	4.8	5.9	5.0	15
465.3	476.2	483.1	1,881.7	1,948.5	1,985.5	469.8	489.6	492.9	1,621.8	1,691.1	1,709.3	1,733.1	1,784.4	1,793.7	16
18.9	19.6	19.9	147.6	155.6	157.7	32.8	35.5	35.8	116.2	120.0	122.3	99.1	103.0	103.6	17
6.6	6.9	7.0	28.2	27.7	28.6	3.9	3.9	3.9	17.7	18.2	18.3	31.0	31.5	31.8	18
9.0	8.9	9.1	41.9	42.1	44.4	7.7	8.2	8.2	28.5	29.3	29.7	40.9	42.0	41.4	19
173.6	177.3	179.0	713.4	743.7	750.1	187.9	195.7	197.7	646.3	673.1	680.5	490.5	495.3	498.4	20
3.2	3.3	3.3	16.8	18.8	19.1	2.0	2.1	2.1	13.4	13.5	14.0	17.0	17.5	17.5	21
4.5	4.7	4.8	28.3	28.5	28.7	4.5	4.5	4.5	20.0	20.7	20.6	36.2	36.6	37.1	22
18.8	19.7	19.9	82.9	84.7	84.8	13.4	13.7	13.9	70.6	73.3	72.9	91.5	93.7	94.6	23
17.3	17.7	18.0	75.0	78.8	79.9	15.0	16.0	16.2	56.7	59.4	59.9	131.3	135.4	135.6	24
4.3	4.5	4.6	19.9	20.1	20.6	3.3	3.3	3.3	15.1	15.3	15.4	22.1	22.3	22.7	25
23.0	23.9	24.2	114.7	119.1	119.8	26.4	27.8	28.0	101.2	105.4	106.1	131.7	134.9	134.7	26
118.2	119.7	120.5	302.7	311.4	313.4	116.1	117.2	117.7	278.0	284.7	285.2	295.9	305.5	307.3	27
18.2	18.6	18.9	97.2	101.3	102.1	19.9	20.8	21.0	102.2	106.5	107.6	76.0	78.2	77.8	28
3.4	3.4	3.4	24.4	25.3	25.4	4.4	4.4	4.4	24.7	24.9	25.0	28.6	28.1	28.2	29
3.4	3.4	3.5	16.7	17.7	17.9	3.7	3.9	4.0	13.0	13.3	13.3	18.4	19.1	19.2	30
7.3	7.2	7.6	25.3	24.9	25.2	4.0	4.1	4.1	18.9	20.2	19.8	26.4	27.2	27.1	31
4.2	4.1	4.2	16.2	16.2	16.6	2.6	2.7	2.7	14.9	15.8	15.3	36.0	37.0	38.0	32
60.9	62.6	63.2	236.0	236.7	241.9	59.6	60.9	60.7	197.7	196.4	197.6	219.2	220.1	216.5	33
40.6	41.8	42.4	156.1	155.6	158.2	44.7	45.2	44.9	127.0	126.6	125.9	115.4	118.4	115.8	34
54.5	53.5	53.8	256.6	260.9	262.4	88.2	89.4	90.5	233.8	237.7	240.9	177.9	175.8	177.0	35
5.6	5.5	5.5	29.4	29.2	29.1	6.1	5.9	6.0	26.6	25.0	25.4	17.7	17.7	17.6	36
12.7	12.9	12.9	72.2	74.3	74.8	50.2	51.5	52.0	61.2	63.6	63.6	51.1	50.8	50.8	37
1.3	1.3	1.3	9.2	9.4	9.5	1.6	1.6	1.6	8.3	8.5	8.7	6.3	6.8	6.8	38
13.9	13.8	13.7	36.8	37.0	37.1	9.7	9.7	9.8	41.3	41.1	41.5	23.4	23.5	23.2	39
3.2	3.2	3.3	20.8	21.0	22.1	6.0	6.1	6.3	21.0	20.9	21.6	10.0	10.6	10.7	40
3.0	3.0	3.0	14.7	15.1	15.3	2.7	2.9	2.9	14.8	15.6	15.8	10.9	10.8	11.1	41
12.1	12.1	12.2	51.6	51.5	51.7	11.0	10.9	11.0	40.0	38.6	39.0	39.9	40.6	40.7	42
10.6	10.6	10.7	42.2	42.6	42.7	10.0	10.0	10.1	34.5	33.7	34.0	32.6	33.4	33.3	43
29.2	29.1	29.2	65.1	66.1	66.5	33.6	32.5	32.8	146.9	149.0	149.7	270.9	266.7	269.0	44
66.3	65.8	66.9	264.9	269.5	271.5	79.3	79.2	80.8	323.6	327.2	332.0	523.8	519.8	523.6	45
181.9	187.4	187.3	712.7	746.9	739.6	188.7	191.2	191.4	608.5	633.4	627.7	552.2	580.4	566.0	46
13.6	13.5	13.3	66.9	67.4	65.4	19.0	21.0	21.0	58.9	57.4	57.0	38.6	39.4	39.6	47
21.1	21.2	21.4	68.7	70.0	70.4	26.7	26.5	26.5	47.7	48.3	48.5	50.1	50.7	50.9	48
58.3	58.8	58.7	148.3	149.0	148.9	43.3	43.9	43.8	139.8	144.1	139.3	82.2	83.9	84.0	49
11.7	11.7	11.7	59.5	59.8	60.0	13.9	14.2	14.2	55.0	55.6	56.1	36.1	36.2	35.7	50
4.2	4.5	4.4	20.2	21.4	21.5	3.6	3.6	3.7	15.2	16.5	16.3	23.3	24.4	23.2	51
26.3	26.7	26.8	118.8	119.1	117.6	29.2	29.5	29.7	90.5	93.0	91.9	69.5	71.3	69.8	52
6.7	6.7	6.7	37.7	39.5	38.7	10.8	11.3	11.4	33.5	36.3	34.9	25.0	26.2	26.0	53
117.2	120.7	121.2	419.3	433.9	436.3	99.4	100.4	100.7	279.8	293.3	295.9	360.5	376.1	373.8	54
69.4	70.3	70.7	216.0	222.2	222.4	57.3	57.5	57.5	145.8	147.3	147.5	125.4	133.9	133.5	55
4.1	4.1	4.1	18.3	18.3	18.6	3.7	3.7	3.7	13.2	13.6	13.8	26.3	26.7	26.9	56
3.0	2.9	3.0	15.8	15.4	15.4	4.5	4.7	4.7	10.1	10.3	10.4	18.0	17.8	17.9	57
4.2	4.2	4.2	17.2	16.3	16.3	5.5	5.4	5.4	14.5	15.4	15.6	29.5	29.9	29.6	58
8.5	8.7	8.4	17.7	18.2	18.3	3.7	3.7	3.8	12.6	13.1	12.9	13.7	14.3	14.0	59
25.9	25.8	26.0	86.6	86.9	87.7	23.8	24.4	24.7	73.6	76.9	77.3	87.7	87.2	86.8	60
21.8	21.7	22.0	73.9	74.1	74.7	21.5	21.9	22.2	60.6	63.2	63.6	75.6	74.6	74.1	61



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued**

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
1 IDAHO .....	295.0	305.0	311.2	3.4	3.1	3.3	18.3	19.4	21.6	53.4	52.7	55.1
2 Boise City .....	66.6	69.6	69.4	(1)	(1)	(1)	5.4	5.4	5.7	6.7	7.0	7.5
3 ILLINOIS .....	4,518.3	4,563.3	4,601.6	27.3	27.2	28.0	187.9	175.2	187.5	1,203.3	1,220.3	1,233.3
4 Bloomington—Normal .....	42.9	48.0	46.1	(3)	(3)	(3)	1.3	1.3	1.4	6.5	7.3	7.5
5 Champaign—Urbana—Rantoul .....	64.0	67.0	65.4	(3)	(3)	(3)	3.3	3.0	3.3	6.2	6.2	6.3
6 Chicago—Gary .....	3,268.3	(*)	(*)	4.6	(*)	(*)	126.4	(*)	(*)	907.5	(*)	(*)
7 Chicago SMSA <sup>5</sup> .....	3,028.4	3,084.4	3,112.5	4.5	4.3	4.3	113.4	110.3	114.5	808.3	824.9	833.7
8 Davenport—Rock Island—Moline .....	152.0	153.3	153.9	(3)	(3)	(3)	6.0	5.5	5.7	48.4	49.8	50.2
9 Decatur .....	51.4	53.0	53.4	(3)	(3)	(3)	3.4	3.5	3.5	18.0	18.1	18.7
10 Peoria .....	146.0	144.7	145.2	(3)	(3)	(3)	9.0	8.7	9.1	50.8	49.3	49.2
11 Rockford .....	112.1	115.3	115.5	(3)	(3)	(3)	3.5	3.6	3.8	50.0	52.3	52.1
12 Springfield .....	78.9	79.1	79.8	(3)	(3)	(3)	4.1	4.1	4.3	8.3	8.3	8.6
13 INDIANA .....	2,038.0	2,066.8	2,091.5	8.9	8.2	8.4	84.5	83.9	86.7	691.0	702.9	710.3
14 Anderson .....	50.5	50.5	50.7	(1)	(1)	(1)	1.2	1.1	1.1	25.1	25.5	25.3
15 Evansville .....	111.9	113.7	114.3	2.5	2.4	2.4	5.5	5.1	5.4	36.3	36.9	37.4
16 Fort Wayne .....	155.0	160.7	162.1	(1)	(1)	(1)	4.8	6.4	6.6	55.1	58.3	59.1
17 Gary—Hammond—East Chicago <sup>5</sup> .....	239.9	242.0	247.7	(1)	(1)	(1)	13.0	13.5	14.2	99.2	101.1	102.3
18 Indianapolis .....	467.2	476.0	477.9	(1)	(1)	(1)	17.6	17.6	18.4	120.4	123.0	124.3
19 Lafayette—West Lafayette .....	48.0	50.9	49.6	(1)	(1)	(1)	1.6	1.9	2.0	10.9	11.3	11.6
20 Muncie .....	47.2	49.4	49.7	(1)	(1)	(1)	1.7	1.8	1.9	14.9	15.0	15.2
21 South Bend .....	101.7	103.5	103.7	(1)	(1)	(1)	4.2	4.2	4.3	31.0	31.9	32.8
22 Terre Haute .....	57.6	57.2	58.1	1.1	1.1	1.1	2.2	2.1	2.3	15.7	15.4	15.8
23 IOWA .....	1,019.6	1,036.5	(*)	2.9	3.0	(*)	50.6	41.8	(*)	231.4	238.2	(*)
24 Cedar Rapids .....	71.5	75.8	76.3	(1)	(1)	(1)	3.3	3.0	2.6	23.4	27.5	27.7
25 Des Moines .....	156.0	156.2	158.3	(1)	(1)	(1)	7.1	3.8	4.1	22.1	23.1	24.0
26 Dubuque .....	40.0	41.0	41.3	(1)	(1)	(1)	1.2	1.1	1.3	16.5	16.3	16.6
27 Sioux City .....	50.4	47.5	49.5	(1)	(1)	(1)	3.2	2.2	4.4	12.8	10.6	10.7
28 Waterloo—Cedar Falls .....	57.2	59.4	58.2	(1)	(1)	(1)	2.1	2.0	2.4	20.4	21.2	20.5
29 KANSAS .....	838.3	857.9	863.5	10.7	11.2	11.6	45.2	44.7	46.0	164.7	167.2	169.8
30 Topeka .....	76.3	79.5	80.6	.2	.2	.2	3.4	3.4	3.5	7.7	11.4	11.5
31 Wichita .....	173.4	176.1	176.6	1.6	1.8	1.8	9.6	10.5	10.8	52.3	52.2	52.5
32 KENTUCKY .....	1,118.8	1,135.4	1,151.1	48.0	47.5	48.4	56.9	61.0	63.4	275.4	278.4	280.0
33 Lexington—Fayette .....	125.0	132.7	130.0	(1)	(1)	(1)	6.9	7.1	7.2	28.9	28.9	28.8
34 Louisville .....	360.4	367.4	369.5	(1)	(1)	(1)	16.2	16.4	16.8	105.7	106.6	107.4
35 LOUISIANA .....	1,292.0	1,312.7	1,302.1	63.1	64.1	64.2	106.8	115.8	116.4	192.0	195.2	198.3
36 Alexandria .....	43.8	45.8	45.1	(1)	(1)	(1)	2.9	2.6	2.9	5.8	6.1	6.1
37 Baton Rouge .....	171.9	172.8	175.0	1.0	1.0	1.0	22.4	22.7	23.8	23.9	24.7	24.8
38 Lafayette .....	52.9	53.3	53.8	8.4	8.5	8.6	3.7	3.6	3.6	2.9	2.8	2.9
39 Lake Charles .....	51.6	52.0	52.1	1.6	1.6	1.6	5.0	5.3	5.5	11.2	11.1	11.2
40 Monroe .....	42.9	43.1	42.1	.3	.4	.4	3.6	3.4	3.9	7.3	7.3	7.4
41 New Orleans .....	438.7	438.1	441.3	14.8	14.9	15.0	27.4	27.0	26.9	53.2	52.3	53.1
42 Shreveport .....	127.5	130.5	130.9	4.6	5.0	4.7	7.9	7.7	7.8	25.4	26.9	27.4
43 MAINE .....	387.1	385.7	396.1	(1)	(1)	(1)	24.3	21.9	24.2	105.7	104.0	107.9
44 Lewiston—Auburn .....	31.9	33.2	33.3	(1)	(1)	(1)	1.3	1.2	1.3	12.1	12.7	12.7
45 Portland .....	82.4	83.1	83.0	(1)	(1)	(1)	4.4	4.1	4.3	16.4	15.6	14.7
46 MARYLAND .....	1,519.4	1,538.4	1,548.7	1.8	1.7	1.8	97.0	95.9	100.7	236.8	235.7	237.2
47 Baltimore .....	859.3	869.7	873.0	(1)	(1)	(1)	46.6	46.6	49.1	165.4	164.2	165.2
48 MASSACHUSETTS .....	2,333.9	2,364.5	2,382.4	(1)	(1)	(1)	77.5	71.4	74.3	601.6	610.1	616.9
49 Boston .....	1,272.9	1,273.3	1,277.6	(1)	(1)	(1)	44.2	40.2	41.7	257.9	258.7	260.9
50 Brockton .....	50.3	50.8	51.3	-	-	-	1.7	1.5	1.6	11.8	11.8	12.1
51 Fall River .....	51.7	52.0	52.5	(1)	(1)	(1)	1.5	1.4	1.4	21.2	20.6	21.2
52 Lawrence—Haverhill .....	95.9	96.9	96.8	(1)	(1)	(1)	2.7	2.5	2.6	37.3	37.2	37.7
53 Lowell .....	62.8	62.7	63.4	(1)	(1)	(1)	2.5	2.4	2.5	21.3	21.4	21.8
54 New Bedford .....	60.2	61.6	62.2	(1)	(1)	(1)	1.6	1.6	1.6	24.4	25.0	25.4
55 Springfield—Chicopee—Holyoke .....	209.6	217.4	215.7	(1)	(1)	(1)	5.6	5.3	5.6	62.7	64.5	65.4
56 Worcester .....	146.5	147.7	148.5	(1)	(1)	(1)	4.1	3.8	3.9	43.8	45.0	45.5
57 MICHIGAN .....	3,284.0	3,417.7	(*)	13.5	12.1	(*)	108.0	125.2	(*)	1,070.0	1,105.2	(*)
58 Ann Arbor .....	115.9	122.7	(*)	(1)	(1)	(*)	2.9	2.5	(*)	36.6	39.4	(*)
59 Battle Creek .....	63.6	64.5	(*)	(1)	(1)	(*)	1.7	1.4	(*)	23.4	23.4	(*)
60 Bay City .....	33.9	34.1	(*)	(1)	(1)	(*)	1.2	1.2	(*)	10.3	10.6	(*)
61 Detroit .....	1,642.1	1,685.6	(*)	1.4	1.2	(*)	50.1	56.9	(*)	551.5	572.3	(*)
62 Flint .....	180.2	192.0	(*)	(1)	(1)	(*)	4.7	6.3	(*)	77.2	83.5	(*)
63 Grand Rapids .....	228.5	238.4	(*)	(1)	(1)	(*)	8.9	9.9	(*)	77.8	81.8	(*)

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	
17.4	18.2	18.4	72.7	77.5	77.8	15.5	16.5	16.7	49.7	51.2	52.6	64.6	66.4	65.7	1
4.1	4.4	4.4	18.0	18.7	18.7	5.2	5.5	5.6	11.5	12.1	12.3	15.7	16.5	15.2	2
275.6	277.8	280.0	1,040.7	1,050.8	1,058.9	258.8	262.0	265.4	808.9	824.5	832.3	715.7	725.5	716.2	3
3.0	3.0	3.0	10.2	10.9	10.9	6.6	6.7	6.8	7.1	7.2	7.2	8.2	11.5	9.3	4
2.6	2.6	2.6	14.2	14.4	14.3	2.0	2.0	2.0	9.4	9.7	9.9	26.3	29.1	27.0	5
203.0	(*)	(*)	757.7	(*)	(*)	203.9	(*)	(*)	611.7	(*)	(*)	452.7	(*)	(*)	6
188.8	187.9	187.9	714.2	739.1	742.0	196.0	197.0	198.8	581.2	593.4	603.2	422.1	427.5	428.2	7
7.7	7.5	7.7	37.6	38.2	38.4	6.4	6.3	6.4	19.9	20.3	20.0	26.0	25.7	25.6	8
4.0	4.2	4.2	9.6	10.3	10.2	2.2	2.3	2.4	9.1	9.3	9.3	5.0	5.3	5.0	9
7.7	7.8	7.9	32.1	32.5	32.6	6.7	6.8	6.9	23.9	25.1	25.1	15.9	14.5	14.4	10
4.4	4.8	4.8	22.5	22.9	22.9	3.4	3.3	3.4	16.0	16.3	16.4	12.3	12.2	12.1	11
5.1	5.3	5.3	15.6	15.4	15.2	6.5	6.5	6.7	13.2	14.0	14.2	26.1	25.4	25.5	12
102.3	103.1	104.2	438.2	449.1	450.5	92.1	91.7	92.5	288.4	291.8	295.5	332.6	336.1	343.3	13
1.4	1.3	1.3	9.1	9.1	9.1	1.5	1.5	1.5	6.2	6.2	6.2	6.0	5.8	6.2	14
6.0	6.1	6.1	26.0	26.4	26.5	3.9	3.9	4.0	20.5	21.0	20.7	11.2	11.9	11.8	15
10.1	10.2	10.2	36.7	37.3	37.2	9.0	9.2	9.4	23.6	23.8	24.0	15.7	15.5	15.6	16
14.2	14.3	14.6	43.5	44.3	44.9	7.9	7.9	8.1	30.5	31.2	31.5	31.6	29.7	32.1	17
28.3	28.8	29.1	111.1	114.6	114.7	33.0	33.1	33.7	72.2	74.3	74.3	84.6	84.6	83.4	18
1.5	1.4	1.5	10.0	10.3	10.1	2.5	2.6	2.6	7.3	7.6	7.6	14.2	15.8	14.0	19
1.9	1.9	1.9	10.5	11.6	11.6	1.5	1.4	1.4	6.7	6.8	7.0	10.0	10.9	10.7	20
4.9	5.0	5.0	23.9	24.3	24.4	5.5	4.7	4.8	20.1	21.5	20.4	12.1	11.9	12.0	21
4.0	3.9	3.8	13.6	13.9	13.9	1.8	1.9	1.9	8.2	8.3	8.4	11.0	10.6	10.9	22
55.9	54.9	(*)	254.2	259.3	(*)	48.3	48.8	(*)	181.9	188.9	(*)	194.5	201.6	(*)	23
3.7	3.6	3.7	15.4	15.4	15.6	3.5	3.6	3.7	12.8	13.2	13.2	9.4	9.4	9.8	24
10.6	10.4	10.5	40.3	41.2	41.2	17.5	17.9	18.1	31.0	32.7	32.7	27.5	27.2	27.8	25
1.6	1.6	1.6	7.9	8.3	8.3	1.1	1.1	1.1	8.2	9.0	8.9	3.5	3.5	3.5	26
3.6	3.5	3.5	12.0	11.9	11.8	2.5	2.5	2.5	9.8	10.4	10.1	6.3	6.5	6.6	27
2.3	2.1	2.1	12.4	12.5	12.5	1.6	1.7	1.7	8.9	9.3	9.3	9.5	10.6	9.6	28
56.6	58.1	58.2	204.6	208.0	210.0	40.6	41.5	41.8	143.2	148.9	150.3	172.7	178.3	175.8	29
7.1	7.0	7.0	17.2	17.1	17.4	5.6	5.6	5.6	14.1	14.3	14.4	21.2	20.5	21.0	30
8.8	8.9	8.9	38.2	38.1	38.2	8.9	9.0	9.0	32.3	32.1	32.3	21.9	23.5	23.1	31
61.8	62.8	64.1	235.0	237.1	244.9	44.0	44.1	45.1	178.6	182.4	180.8	219.1	222.1	224.4	32
5.8	6.0	6.2	28.6	31.5	31.7	5.8	5.9	6.0	22.1	24.2	23.4	26.9	29.1	26.7	33
22.5	22.6	22.9	80.0	82.5	82.3	19.7	20.2	20.5	65.5	67.7	68.1	50.8	51.3	51.5	34
101.0	100.8	101.5	295.1	293.8	292.1	61.9	60.8	61.4	219.6	224.3	220.5	252.5	257.9	247.7	35
2.3	2.3	2.4	10.2	10.6	10.5	2.5	2.5	2.5	8.3	8.5	8.5	11.8	13.2	12.2	36
8.4	8.5	8.4	33.7	33.0	33.1	9.3	9.6	9.6	25.0	25.0	25.2	48.2	48.3	49.1	37
4.1	4.1	4.2	13.7	14.0	14.0	1.8	1.9	1.9	9.7	9.8	9.9	8.6	8.6	8.7	38
3.0	3.0	3.1	11.2	11.4	11.4	2.2	2.3	2.3	8.3	8.6	8.6	9.1	8.7	8.4	39
2.4	2.3	2.3	11.5	10.9	11.0	3.1	3.2	3.2	6.8	6.7	6.6	7.9	8.9	7.3	40
45.0	45.1	45.1	110.8	111.8	111.9	26.7	26.7	26.8	92.0	91.6	93.7	68.8	68.7	68.8	41
9.9	9.3	9.3	31.8	33.0	33.0	5.8	5.9	5.9	21.3	22.1	22.0	20.8	20.6	20.8	42
18.4	18.0	18.5	82.1	82.1	85.1	14.8	14.9	15.3	65.4	65.8	67.8	76.4	79.0	77.3	43
1.2	1.2	1.2	7.2	7.6	7.6	1.3	1.4	1.4	5.9	6.1	6.1	2.9	3.0	3.0	44
5.1	5.2	5.3	21.6	22.5	23.1	6.4	6.8	6.8	16.4	16.1	16.5	12.1	12.8	12.3	45
78.5	79.6	79.6	362.3	367.8	370.8	81.1	81.3	83.0	289.2	297.8	298.8	372.7	378.6	376.8	46
54.4	55.3	55.4	194.0	197.2	198.1	49.2	49.3	50.0	159.0	163.7	163.3	190.7	193.4	191.9	47
114.3	111.5	112.6	525.5	533.9	540.0	137.0	136.5	137.8	513.3	530.9	532.4	364.7	370.2	368.4	48
68.8	66.5	67.1	293.2	295.2	296.6	93.7	94.2	95.0	322.3	328.0	325.6	192.8	190.5	190.7	49
3.5	3.7	3.7	13.9	14.0	14.1	1.7	1.8	1.8	8.0	8.6	8.6	9.7	9.4	9.4	50
2.0	1.9	1.9	10.4	11.1	11.0	2.3	2.3	2.3	8.6	8.9	8.9	5.7	5.8	5.8	51
3.5	3.5	3.5	19.8	19.8	20.0	3.5	3.5	3.6	13.7	14.1	14.1	15.4	16.3	15.3	52
3.1	3.0	3.1	13.5	13.7	13.7	1.9	1.9	1.9	9.8	9.9	9.9	10.7	10.4	10.5	53
2.7	2.7	2.7	11.8	11.9	12.0	1.8	1.8	1.8	10.2	10.6	10.7	7.7	8.0	8.0	54
8.9	8.7	8.8	44.6	44.3	44.4	10.7	10.9	10.9	37.0	39.6	39.4	40.1	44.1	41.2	55
7.0	6.6	6.7	31.7	32.2	32.2	8.0	8.0	8.1	27.5	28.4	28.3	24.4	23.7	23.8	56
145.5	146.5	(*)	678.8	697.3	(*)	138.6	138.8	(*)	540.1	573.5	(*)	589.5	619.1	(*)	57
2.2	2.2	(*)	16.4	17.4	(*)	3.4	3.5	(*)	17.1	18.0	(*)	37.3	39.7	(*)	58
2.2	2.1	(*)	10.5	10.7	(*)	3.5	3.5	(*)	10.7	11.0	(*)	11.7	12.4	(*)	59
1.9	1.9	(*)	8.4	8.4	(*)	1.0	1.1	(*)	6.0	5.8	(*)	5.1	5.1	(*)	60
80.5	80.1	(*)	330.4	330.7	(*)	80.4	81.5	(*)	296.6	308.6	(*)	251.3	254.3	(*)	61
5.6	6.2	(*)	35.7	37.1	(*)	5.2	5.4	(*)	23.7	25.1	(*)	28.1	28.4	(*)	62
9.2	9.5	(*)	54.1	55.6	(*)	8.3	8.6	(*)	41.3	43.2	(*)	28.9	29.8	(*)	63

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8 Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued**

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
<b>MICHIGAN—Continued</b>												
1 Jackson	48.4	50.3	(*)	(1)	(1)	(*)	1.8	1.4	(*)	14.1	15.7	(*)
2 Kalamazoo—Portage	99.3	102.7	(*)	(1)	(1)	(*)	4.1	3.8	(*)	33.8	35.2	(*)
3 Lansing—East Lansing	172.0	180.8	(*)	(1)	(1)	(*)	5.3	5.2	(*)	38.0	41.2	(*)
4 Muskegon—Norton Shores—Musk. Hts.	58.3	58.2	(*)	(1)	(1)	(*)	2.4	2.6	(*)	21.9	20.3	(*)
5 Saginaw	80.8	85.9	(*)	(1)	(1)	(*)	2.5	2.6	(*)	32.0	34.8	(*)
6 MINNESOTA	1,543.4	1,563.0	1,585.8	15.7	15.2	15.9	73.2	63.3	69.2	324.0	325.7	334.6
7 Duluth—Superior	57.1	54.7	55.4	(1)	(1)	(1)	2.5	1.7	1.8	7.8	6.8	6.4
8 Minneapolis—St. Paul	921.0	941.7	948.5	(1)	(1)	(1)	35.4	35.1	35.8	209.7	212.8	215.4
9 MISSISSIPPI	730.6	757.4	766.1	7.1	7.8	7.8	41.0	44.5	45.2	223.8	226.1	228.2
10 Jackson	123.9	124.8	125.0	1.0	1.0	1.0	7.1	7.4	7.5	18.5	18.4	18.5
11 MISSOURI	1,753.7	1,787.5	1,792.4	8.4	8.2	8.3	71.8	69.5	73.3	417.5	425.6	430.7
12 Kansas City <sup>4</sup>	554.3	552.9	557.1	.6	.7	.7	25.9	17.5	16.7	109.8	114.1	115.6
13 St. Joseph <sup>4</sup>	36.1	36.1	36.4	(3)	(3)	(3)	2.1	1.8	2.0	9.8	10.0	10.1
14 St. Louis <sup>4</sup>	911.4	914.1	918.9	2.6	2.8	2.8	41.6	36.5	38.4	244.3	244.5	246.2
15 Springfield <sup>4</sup>	72.2	73.0	75.1	.2	.1	.2	2.6	3.0	3.3	17.8	16.2	18.3
16 MONTANA	253.2	259.6	261.5	5.9	5.6	5.7	14.4	13.1	12.8	23.7	24.4	24.9
17 Billings	39.1	41.4	42.1	(1)	(1)	(1)	2.4	2.2	2.2	3.4	3.4	3.6
18 Great Falls	26.8	28.1	28.1	(1)	(1)	(1)	1.8	1.5	1.5	1.7	1.8	1.6
19 NEBRASKA	584.9	583.5	592.6	1.8	1.9	2.0	33.5	27.5	28.9	87.7	89.7	90.8
20 Lincoln	88.5	92.5	93.2	-	-	-	4.6	3.8	4.2	11.5	13.4	13.5
21 Omaha	241.5	243.8	246.7	(3)	(3)	(3)	11.6	11.3	11.4	33.5	35.7	35.7
22 NEVADA	285.4	300.4	306.7	3.8	3.7	3.7	15.2	16.7	17.6	13.0	13.7	13.9
23 Las Vegas	155.5	164.5	166.7	.2	.2	.2	8.1	9.1	9.4	5.2	5.4	5.5
24 Reno	80.8	85.8	87.6	.4	.4	.4	4.8	5.2	5.7	5.5	5.6	5.7
25 NEW HAMPSHIRE	318.3	328.0	335.0	.5	.5	.5	15.4	16.4	17.5	96.0	98.7	100.0
26 Manchester	61.3	64.2	65.3	(3)	(3)	(3)	2.8	3.1	3.2	17.9	18.5	19.0
27 Nashua	46.7	48.3	49.0	(3)	(3)	(3)	1.7	2.2	2.3	21.4	21.8	22.1
28 NEW JERSEY	2,788.3	2,803.7	2,850.7	2.9	3.0	3.1	99.8	97.6	100.0	765.1	759.8	770.4
29 Atlantic City	70.2	66.6	71.4	-	-	-	3.2	3.1	3.3	8.9	8.2	8.3
30 Camden <sup>5</sup>	299.0	295.7	299.4	.1	.1	.1	13.3	12.1	13.1	65.3	65.9	65.8
31 Hackensack <sup>7</sup>	360.3	366.3	368.7	(1)	(1)	(1)	13.6	15.3	15.9	106.0	105.5	106.1
32 Jersey City <sup>7</sup>	233.1	228.4	231.0	-	-	-	4.3	4.9	5.1	76.1	72.7	73.3
33 Long Branch—Asbury Park	144.2	143.2	149.3	(1)	(1)	(1)	6.2	6.2	6.7	21.6	22.6	22.7
34 New Bruns.—Perth Amboy—Sayreville	244.8	247.2	250.8	(1)	(1)	(1)	8.6	9.0	9.3	80.8	82.3	83.7
35 Newark <sup>7</sup>	867.0	867.3	875.0	1.0	1.0	1.0	30.6	27.6	28.2	243.1	240.2	244.2
36 Paterson—Clifton—Passaic <sup>7</sup>	180.8	182.5	183.8	(1)	(1)	(1)	5.2	6.2	5.8	66.6	65.0	66.2
37 Trenton	150.0	155.4	157.3	(1)	(1)	(1)	2.8	2.9	3.3	37.0	37.4	38.5
38 Vineland—Millville—Bridgeton	52.6	51.8	52.7	(1)	(1)	(1)	1.5	1.2	1.2	19.3	18.6	19.3
39 NEW MEXICO	395.9	410.8	418.9	21.6	23.2	23.5	26.8	28.5	29.8	30.4	31.4	31.8
40 Albuquerque	156.4	163.3	165.4	(1)	(1)	(1)	10.5	11.3	12.1	16.4	16.0	16.1
41 NEW YORK	6,836.7	6,765.3	(*)	7.5	7.5	(*)	198.9	179.8	(*)	1,454.9	1,445.4	(*)
42 Albany—Schenectady—Troy	315.3	312.8	(*)	(1)	(1)	(*)	11.5	10.3	(*)	63.4	61.3	(*)
43 Binghamton	108.4	110.2	(*)	(1)	(1)	(*)	4.3	4.6	(*)	39.6	39.9	(*)
44 Buffalo	491.3	496.0	(*)	(1)	(1)	(*)	18.3	18.2	(*)	143.0	145.2	(*)
45 Elmira	38.0	35.1	(*)	(1)	(1)	(*)	1.8	1.4	(*)	12.4	10.4	(*)
46 Monroe County <sup>8</sup>	320.8	319.6	(*)	(1)	(1)	(*)	9.6	9.8	(*)	128.8	127.2	(*)
47 Nassau—Suffolk <sup>9</sup>	818.1	812.6	(*)	(1)	(1)	(*)	33.8	28.2	(*)	145.9	146.8	(*)
48 New York—Northeastern New Jersey	6,314.1	6,252.6	(*)	3.5	3.6	(*)	179.4	167.7	(*)	1,345.9	1,335.8	(*)
49 New York and Nassau—Suffolk <sup>7</sup>	4,428.2	4,363.9	(*)	2.1	2.0	(*)	117.1	106.3	(*)	773.4	770.3	(*)
50 New York SMSA <sup>9</sup>	3,610.1	3,551.4	(*)	2.0	1.9	(*)	83.3	78.1	(*)	627.5	623.5	(*)
51 New York City <sup>10</sup>	3,216.1	3,158.0	(*)	1.7	1.7	(*)	67.4	63.5	(*)	548.3	542.9	(*)
52 Poughkeepsie	86.2	86.9	(*)	(1)	(1)	(*)	2.8	3.0	(*)	28.2	28.3	(*)
53 Rochester	392.2	391.9	(*)	(1)	(1)	(*)	11.8	11.5	(*)	146.9	146.0	(*)
54 Rockland County <sup>10</sup>	74.0	72.4	(*)	(1)	(1)	(*)	2.1	1.5	(*)	14.4	14.6	(*)
55 Syracuse	239.0	241.2	(*)	(1)	(1)	(*)	9.9	9.3	(*)	55.9	56.4	(*)
56 Utica—Rome	111.9	111.4	(*)	(1)	(1)	(*)	3.4	3.2	(*)	30.3	29.7	(*)
57 Westchester County <sup>10</sup>	308.7	309.9	(*)	(1)	(1)	(*)	13.1	12.3	(*)	63.6	64.8	(*)
58 NORTH CAROLINA	2,056.0	2,105.7	2,125.1	4.7	5.0	5.0	105.9	104.5	106.4	761.3	783.2	794.1
59 Asheville	62.7	62.8	65.5	(1)	(1)	(1)	3.3	3.5	3.5	20.2	20.1	20.7
60 Charlotte—Gastonia	280.2	285.6	288.1	(1)	(1)	(1)	14.7	14.7	15.1	80.2	81.9	82.8
61 Greensboro—Winston-Salem—High Pt.	341.7	347.9	350.9	(1)	(1)	(1)	15.7	15.5	15.9	137.4	137.8	139.8

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	
4.3	4.4	(*)	9.7	9.7	(*)	1.5	1.5	(*)	8.4	9.0	(*)	8.6	8.6	(*)	1
3.2	3.3	(*)	18.6	20.0	(*)	3.4	3.4	(*)	17.4	17.5	(*)	18.8	19.5	(*)	2
4.1	4.2	(*)	31.9	32.7	(*)	7.9	8.3	(*)	23.6	24.3	(*)	61.2	64.9	(*)	3
2.9	3.1	(*)	10.9	11.1	(*)	1.6	1.7	(*)	8.7	8.7	(*)	9.9	10.7	(*)	4
4.1	3.9	(*)	16.3	17.3	(*)	3.5	3.7	(*)	11.6	11.9	(*)	10.8	11.7	(*)	5
90.1	93.2	94.1	389.8	398.8	403.5	78.6	79.1	80.1	295.1	304.6	308.7	277.0	283.2	279.5	6
6.5	6.4	6.6	14.9	14.7	14.7	2.0	2.0	2.1	11.9	11.4	11.7	11.5	11.6	11.6	7
57.2	59.1	59.4	231.5	238.6	241.0	57.9	58.1	59.0	184.9	190.4	190.9	144.4	147.6	147.0	8
34.9	35.3	35.6	141.6	148.4	150.2	29.0	29.6	30.0	100.9	107.0	107.9	152.4	158.8	161.1	9
7.6	7.6	7.6	28.4	28.3	28.4	9.5	9.7	9.7	23.3	24.2	23.1	28.6	28.1	29.1	10
124.2	124.6	126.3	409.2	408.0	409.7	94.8	94.4	95.5	316.6	325.9	328.3	311.2	331.3	320.3	11
50.4	50.3	50.6	141.4	143.9	144.9	36.9	37.3	37.7	106.6	106.0	107.7	82.7	83.1	83.0	12
2.3	2.3	2.3	8.8	9.0	9.0	1.6	1.6	1.6	6.2	5.8	6.2	5.3	5.6	5.2	13
64.3	64.9	65.8	204.5	206.7	208.3	49.0	49.1	49.6	176.3	175.4	175.8	128.8	134.2	132.0	14
5.2	5.2	5.3	19.3	20.2	20.2	2.8	2.9	2.9	13.6	14.1	14.2	10.7	11.3	10.7	15
19.5	19.7	19.8	64.4	67.4	68.0	10.6	11.1	11.3	48.2	49.6	49.6	66.5	68.7	69.4	16
3.1	3.1	3.1	13.3	14.5	14.6	1.8	2.0	2.0	7.4	7.7	7.8	7.7	8.5	8.8	17
2.1	1.9	1.9	8.3	8.3	8.3	1.6	1.7	1.7	5.2	6.7	6.7	6.1	6.2	6.2	18
41.5	41.4	42.8	152.6	153.9	152.5	35.9	37.3	37.7	106.3	109.9	110.1	125.7	121.9	127.7	19
6.1	5.9	6.0	19.0	20.5	20.3	6.2	6.3	6.4	15.2	15.6	15.7	25.8	26.9	26.9	20
21.9	21.3	21.8	61.2	60.3	59.8	19.6	20.6	20.9	52.3	51.5	52.0	41.5	43.0	45.2	21
17.8	18.6	18.8	57.7	60.9	62.4	11.4	12.0	12.3	120.2	125.0	129.3	46.3	49.8	48.7	22
9.8	10.4	10.4	31.2	33.1	33.5	6.0	6.4	6.5	74.6	77.7	79.6	20.4	22.2	21.6	23
5.8	6.1	6.2	18.3	19.5	20.0	4.4	4.6	4.7	28.8	30.1	31.2	12.8	14.3	13.7	24
12.4	12.3	12.6	69.4	72.4	74.9	15.2	15.9	16.2	59.5	60.3	62.7	49.9	51.5	50.6	25
3.9	3.9	4.0	14.4	15.2	15.5	4.2	4.5	4.6	11.1	11.8	11.8	7.0	7.2	7.2	26
1.9	1.8	1.8	9.3	9.5	9.7	1.5	1.6	1.7	6.4	6.8	6.8	4.5	4.6	4.6	27
177.8	177.9	177.8	629.2	637.7	653.6	140.0	143.0	145.2	501.7	506.4	518.5	471.8	478.3	482.1	28
3.4	3.4	3.4	20.0	17.6	20.1	4.5	4.6	4.7	16.6	16.2	17.7	13.6	13.5	13.9	29
15.5	14.4	14.8	79.2	80.0	80.7	14.2	14.2	14.5	55.6	52.9	53.4	55.8	56.1	57.0	30
18.5	17.0	17.2	105.7	105.1	105.4	14.1	14.3	14.6	62.7	68.3	68.6	39.7	40.8	40.9	31
29.6	29.3	29.6	42.5	41.5	41.8	8.7	8.9	8.9	29.2	28.4	28.8	42.7	42.7	43.5	32
5.8	5.5	5.6	37.0	35.3	37.9	5.5	6.2	6.4	35.5	34.9	37.3	32.6	32.5	32.7	33
15.8	16.4	16.4	54.5	53.4	54.1	8.8	8.5	8.6	32.7	33.1	33.6	43.6	44.5	45.1	34
64.6	63.2	63.2	168.5	165.0	167.2	59.3	59.2	59.7	163.0	168.8	170.2	136.9	142.3	141.3	35
6.7	6.8	6.9	40.5	40.2	40.0	8.7	9.0	9.3	28.6	28.4	28.6	24.5	26.9	27.0	36
5.3	5.2	5.2	23.2	23.4	23.4	5.9	6.2	6.2	36.4	38.7	38.8	39.4	41.6	41.9	37
3.1	2.9	3.0	8.2	8.1	8.1	2.4	2.5	2.5	7.5	7.6	7.7	10.6	10.7	10.9	38
22.7	24.5	23.9	92.2	94.9	97.0	17.3	17.4	17.8	77.7	78.4	83.7	107.2	112.5	111.4	39
3.2	9.3	9.2	40.8	42.3	43.0	8.7	8.7	8.9	36.0	37.9	38.5	35.8	37.8	37.6	40
431.6	423.8	(*)	1,415.2	1,406.3	(*)	579.2	576.1	(*)	1,474.9	1,486.0	(*)	1,274.6	1,240.5	(*)	41
14.8	14.7	(*)	62.1	61.4	(*)	14.0	13.9	(*)	60.5	61.7	(*)	89.0	89.5	(*)	42
4.2	4.2	(*)	19.7	19.4	(*)	3.5	3.5	(*)	15.0	15.7	(*)	22.1	22.8	(*)	43
27.2	25.1	(*)	107.9	111.9	(*)	20.4	21.2	(*)	88.5	90.1	(*)	86.0	84.2	(*)	44
1.3	1.3	(*)	8.3	8.3	(*)	1.0	1.0	(*)	6.4	6.4	(*)	6.7	6.3	(*)	45
10.1	9.7	(*)	59.2	60.5	(*)	14.0	14.3	(*)	59.2	60.5	(*)	39.9	37.7	(*)	46
35.3	35.7	(*)	214.5	217.2	(*)	44.6	44.3	(*)	174.3	175.3	(*)	169.7	165.1	(*)	47
458.2	447.3	(*)	1,344.6	1,333.8	(*)	581.9	577.3	(*)	1,355.1	1,361.1	(*)	1,045.5	1,026.0	(*)	48
323.0	314.9	(*)	932.9	929.9	(*)	482.3	477.4	(*)	1,039.2	1,034.2	(*)	758.3	728.9	(*)	49
287.7	279.3	(*)	718.4	712.7	(*)	437.7	433.1	(*)	865.0	859.0	(*)	588.6	563.7	(*)	50
266.1	258.2	(*)	627.9	621.4	(*)	418.7	414.2	(*)	770.5	766.0	(*)	515.6	490.1	(*)	51
2.9	2.9	(*)	14.6	14.4	(*)	2.5	2.5	(*)	15.0	15.4	(*)	20.2	20.4	(*)	52
12.7	12.2	(*)	75.4	77.4	(*)	15.5	15.7	(*)	69.7	70.9	(*)	60.2	58.1	(*)	53
3.5	3.6	(*)	16.0	15.3	(*)	2.3	2.1	(*)	15.8	15.9	(*)	19.9	19.3	(*)	54
13.7	13.7	(*)	54.1	54.2	(*)	14.5	14.6	(*)	43.2	46.0	(*)	47.7	47.0	(*)	55
4.0	3.8	(*)	21.0	21.1	(*)	5.1	5.4	(*)	18.7	19.4	(*)	29.3	28.7	(*)	56
17.5	16.9	(*)	71.7	73.2	(*)	16.3	16.5	(*)	76.5	75.0	(*)	50.1	51.2	(*)	57
96.3	97.2	97.5	394.3	405.1	406.2	82.4	82.9	83.2	280.5	289.8	291.7	330.6	338.0	341.0	58
3.2	3.4	3.4	12.7	12.8	12.9	2.4	2.7	2.8	11.3	10.4	12.1	9.6	9.9	10.1	59
25.7	26.3	26.5	67.1	67.4	67.5	17.3	18.3	18.4	41.3	42.4	43.0	33.9	34.6	34.8	60
19.5	19.7	19.8	67.5	69.4	69.5	14.8	15.6	15.6	45.1	47.3	47.6	41.7	42.6	42.7	61

**ESTABLISHMENT DATA**  
**STATE AND AREA EMPLOYMENT**

**B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued**

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
<b>NORTH CAROLINA—Continued</b>												
1 Raleigh-Durham	217.1	220.1	223.8	(1)	(1)	(1)	11.0	11.1	11.5	35.8	35.4	37.4
<b>NORTH DAKOTA</b>	218.8	224.4	226.7	2.6	2.7	2.7	18.2	18.2	19.7	16.3	14.8	15.0
3 Fargo-Moorhead	56.0	57.9	58.4	(3)	(3)	(3)	4.2	3.9	4.4	5.2	5.0	4.9
<b>OHIO</b>	4,146.7	4,226.7	4,265.1	28.8	27.8	29.2	163.2	157.5	161.0	1,304.4	1,333.6	1,344.6
5 Akron	242.8	256.0	258.0	.3	.3	.3	7.6	6.8	7.1	73.8	83.7	84.0
6 Canton	147.6	149.8	151.2	.8	.8	.8	6.0	5.6	5.9	55.5	55.3	55.8
7 Cincinnati	548.9	553.9	555.5	.4	.4	.4	23.3	22.8	23.0	157.9	158.0	157.8
8 Cleveland	872.4	878.5	883.2	1.5	1.4	1.5	30.5	29.0	30.2	269.1	271.0	270.5
9 Columbus	458.2	468.8	472.1	.7	.7	.7	18.1	17.2	17.7	94.5	97.1	98.0
10 Dayton	335.8	341.4	343.9	.4	.4	.4	12.3	11.4	11.6	105.2	108.7	109.4
11 Toledo	287.1	295.1	297.4	.6	.5	.6	12.1	12.0	12.1	85.5	86.5	87.7
12 Youngstown-Warren	206.8	208.8	210.2	.3	.3	.3	7.0	6.2	6.2	82.2	82.3	82.4
<b>OKLAHOMA</b>	931.6	975.3	984.6	45.9	49.1	51.0	44.8	45.4	48.6	156.6	162.4	165.5
14 Oklahoma City	316.5	336.5	337.1	10.0	10.8	11.1	15.7	19.1	20.2	41.2	44.4	45.2
15 Tulsa	245.4	250.9	251.3	16.4	16.5	16.5	15.1	15.4	15.6	52.4	53.3	54.0
<b>OREGON</b>	889.4	899.2	918.9	1.6	1.4	1.5	37.5	36.1	38.3	195.7	194.5	202.0
17 Eugene-Springfield	91.0	94.5	97.1	(1)	(1)	(1)	3.8	4.6	5.0	19.8	20.1	20.8
18 Jackson County	-	-	-	-	-	-	-	-	-	7.3	7.5	7.7
19 Portland	466.2	474.4	484.0	(1)	(1)	(1)	20.4	18.3	19.9	95.0	96.0	99.1
20 Salem	73.2	73.5	74.9	(1)	(1)	(1)	3.9	3.3	3.7	11.8	10.9	12.0
<b>PENNSYLVANIA</b>	4,530.2	4,529.5	(*)	49.6	49.3	(*)	189.7	184.3	(*)	1,349.2	1,335.3	(*)
22 Allentown-Bethlehem-Easton	259.6	258.2	(*)	(1)	(1)	(*)	9.7	8.7	(*)	109.1	108.8	(*)
23 Altoona	51.3	52.6	(*)	(1)	(1)	(*)	2.2	2.1	(*)	13.2	13.4	(*)
24 Delaware Valley	1,506.7	1,506.5	(*)	(1)	(1)	(*)	55.6	49.7	(*)	381.6	379.7	(*)
25 Erie	108.3	111.2	(*)	(1)	(1)	(*)	3.7	3.3	(*)	41.9	43.2	(*)
26 Harrisburg	203.8	205.5	(*)	(1)	(1)	(*)	9.5	9.6	(*)	39.2	38.3	(*)
27 Johnstown	88.6	90.1	(*)	9.3	9.5	(*)	3.1	3.1	(*)	22.5	22.2	(*)
28 Lancaster	135.4	135.7	(*)	(1)	(1)	(*)	6.8	6.9	(*)	54.9	54.9	(*)
29 Northeast Pennsylvania	232.4	229.9	(*)	1.3	1.2	(*)	12.7	12.4	(*)	71.9	70.5	(*)
30 Philadelphia SMSA	1,805.2	1,802.9	(*)	(1)	(1)	(*)	68.9	61.8	(*)	446.8	445.7	(*)
31 Philadelphia City	802.7	801.8	(*)	(1)	(1)	(*)	18.5	16.7	(*)	160.8	158.8	(*)
32 Pittsburgh	911.1	902.1	(*)	12.0	11.6	(*)	41.5	44.5	(*)	254.5	246.0	(*)
33 Reading	130.3	131.2	(*)	(1)	(1)	(*)	4.8	4.2	(*)	49.6	50.3	(*)
34 Scranton	81.4	82.6	(*)	(1)	(1)	(*)	2.8	2.6	(*)	25.9	26.4	(*)
35 Wilkes-Barre-Hazleton	124.9	121.6	(*)	1.1	1.1	(*)	8.5	8.5	(*)	41.5	39.5	(*)
36 Williamsport	44.7	43.4	(*)	(1)	(1)	(*)	1.3	1.2	(*)	17.9	16.2	(*)
37 York	139.7	140.4	(*)	(1)	(1)	(*)	6.5	6.3	(*)	58.3	57.8	(*)
<b>RHODE ISLAND</b>	371.8	373.0	376.4	(1)	(1)	(1)	12.9	12.6	13.6	124.1	124.0	126.3
39 Providence-Warwick-Pawtucket	383.5	385.0	388.7	(1)	(1)	(1)	13.2	12.9	13.9	139.1	138.6	141.1
<b>SOUTH CAROLINA</b>	1,052.4	1,084.5	1,095.2	1.8	1.8	1.8	62.9	61.1	63.1	375.4	377.9	381.3
41 Charleston-North Charleston	123.9	126.6	127.7	(1)	(1)	(1)	9.8	10.4	10.5	17.5	17.8	18.3
42 Columbia	146.8	155.9	155.3	(1)	(1)	(1)	6.9	7.0	7.2	23.4	23.0	23.3
43 Greenville-Spartanburg	231.7	234.9	234.7	(1)	(1)	(1)	13.3	12.7	13.0	101.8	101.3	102.0
<b>SOUTH DAKOTA</b>	226.2	225.6	231.4	2.7	2.6	2.8	12.6	12.2	13.6	22.9	22.4	22.8
45 Rapid City	27.2	26.1	25.5	(3)	(3)	(3)	2.4	2.0	2.0	2.2	2.3	2.3
46 Sioux Falls	47.8	50.1	52.0	(3)	(3)	(3)	2.6	3.2	3.5	6.6	6.8	7.0
<b>TENNESSEE</b>	1,585.7	1,630.0	1,637.8	9.6	9.1	9.2	75.7	80.8	81.8	491.5	506.5	512.5
48 Chattanooga	162.3	164.6	164.7	1.1	1.0	1.1	6.4	6.6	6.5	57.0	57.0	57.4
49 Knoxville	181.3	184.7	186.8	1.7	1.8	1.8	9.7	12.1	12.4	49.6	50.8	50.8
50 Memphis	326.7	331.4	334.0	.2	.2	.2	14.8	15.9	16.1	56.9	59.4	59.7
51 Nashville-Davidson	316.1	324.9	328.2	(1)	(1)	(1)	17.4	17.6	18.3	76.8	80.2	80.3
<b>TEXAS</b>	4,718.6	4,836.9	4,853.3	139.4	149.5	153.0	332.1	329.6	337.5	867.1	878.0	890.1
53 Amarillo	65.9	67.7	67.4	(1)	(1)	(1)	4.3	4.7	4.7	9.2	8.7	8.7
54 Austin	174.4	181.2	180.0	(1)	(1)	(1)	8.5	8.6	8.9	17.2	18.6	18.9
55 Beaumont-Port Arthur-Orange	139.0	136.1	137.7	(1)	(1)	(1)	16.5	14.5	14.6	42.1	40.2	41.4
56 Corpus Christi	102.3	103.4	103.2	4.0	3.7	3.7	11.0	10.8	11.0	12.6	11.9	12.0
57 Dallas-Fort Worth	1,119.1	1,157.2	1,162.2	12.6	13.0	13.2	50.5	49.7	50.3	246.3	252.2	254.3
58 El Paso	139.3	137.3	137.1	(1)	(1)	(1)	6.7	6.6	6.8	32.2	30.3	30.5
59 Galveston-Texas City	66.3	69.8	70.8	(1)	(1)	(1)	7.1	8.2	8.5	11.9	11.9	11.9
60 Houston	1,102.5	1,145.7	1,155.8	46.1	47.4	47.9	118.3	122.2	124.3	188.4	188.4	189.5
61 Lubbock	74.2	81.0	79.1	(1)	(1)	(1)	4.8	4.5	4.9	10.6	12.1	12.3
62 San Antonio	331.7	333.1	334.1	1.7	1.7	1.8	19.4	18.6	19.1	41.1	41.4	41.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government		
JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
9.8	9.9	10.0	42.8	42.9	43.1	13.2	13.9	13.9	43.5	45.7	46.0	61.0	61.2	61.9
13.4	13.7	14.0	61.8	64.0	65.1	9.2	9.6	9.9	41.2	42.6	42.6	56.1	58.8	57.7
3.5	3.6	3.6	17.0	17.9	18.0	3.2	3.4	3.5	11.3	12.2	11.7	11.6	11.9	12.3
204.9	215.3	216.3	897.9	919.6	925.9	178.2	179.7	181.8	722.0	746.7	757.7	647.3	646.6	648.7
13.2	14.1	14.2	55.2	56.4	57.2	8.4	8.8	8.8	43.6	44.3	45.5	40.7	41.7	40.9
6.1	7.1	7.2	31.4	32.2	32.5	5.3	5.3	5.3	25.5	26.1	26.4	16.8	17.3	17.3
31.1	30.0	30.4	124.8	128.2	128.9	29.1	28.7	29.0	103.2	106.9	107.6	79.0	78.8	78.4
42.4	45.4	45.8	198.1	201.5	203.6	44.4	44.8	45.2	164.5	167.9	168.9	121.9	117.5	117.4
21.7	22.7	22.8	109.3	112.0	112.5	30.8	31.8	32.0	86.7	88.5	89.4	96.4	98.8	99.1
10.8	12.5	12.6	59.3	71.5	71.5	11.2	11.3	11.5	61.5	62.7	63.0	65.0	62.8	63.0
17.7	19.3	19.5	65.1	67.4	67.6	9.2	9.4	9.5	52.7	55.1	55.5	44.1	44.9	44.9
8.9	9.6	9.7	43.9	45.1	45.5	6.5	6.6	6.6	33.7	34.1	34.7	24.3	24.8	24.8
57.8	58.5	59.5	223.0	234.7	236.5	46.7	48.7	49.7	154.5	161.4	163.5	202.3	215.1	210.3
19.5	20.1	20.1	78.8	82.3	82.0	20.8	21.7	22.2	52.9	56.7	56.4	77.6	81.4	79.9
19.0	19.1	19.5	59.2	59.1	59.5	13.1	13.3	13.5	46.0	47.6	47.6	24.2	26.6	25.1
52.2	52.9	53.5	211.2	215.1	218.9	52.1	54.9	55.7	151.5	156.2	158.2	187.6	188.1	190.8
4.7	4.8	4.9	21.9	23.2	23.6	4.2	4.4	4.5	14.8	16.3	16.8	21.8	21.1	21.5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.4	32.6	33.3	117.6	119.5	121.1	33.5	36.0	36.6	91.0	94.8	96.6	77.3	77.2	77.4
2.4	2.5	2.5	15.1	15.8	15.9	4.1	4.2	4.3	11.1	11.6	11.3	24.8	25.2	25.2
257.7	254.7	(*)	919.7	917.9	(*)	212.5	215.6	(*)	832.7	857.0	(*)	719.1	715.4	(*)
13.2	12.8	(*)	44.6	46.1	(*)	7.7	7.8	(*)	37.9	38.3	(*)	37.4	35.7	(*)
7.7	8.1	(*)	11.0	12.0	(*)	1.4	1.4	(*)	8.1	8.1	(*)	7.7	7.5	(*)
81.9	82.1	(*)	311.4	310.5	(*)	97.6	97.4	(*)	335.1	345.3	(*)	243.5	241.8	(*)
5.2	5.3	(*)	21.3	20.9	(*)	4.4	4.5	(*)	18.2	18.7	(*)	13.6	15.3	(*)
14.4	14.8	(*)	41.0	41.2	(*)	11.0	11.4	(*)	34.9	35.4	(*)	53.8	55.1	(*)
5.4	5.8	(*)	16.4	17.0	(*)	3.4	3.7	(*)	14.3	14.7	(*)	14.2	14.1	(*)
6.0	6.2	(*)	29.2	28.9	(*)	4.2	4.2	(*)	20.9	21.5	(*)	13.4	13.1	(*)
12.0	11.5	(*)	48.1	47.7	(*)	8.8	9.1	(*)	40.7	40.4	(*)	36.9	37.1	(*)
97.3	96.6	(*)	390.5	390.8	(*)	111.8	111.6	(*)	390.7	398.2	(*)	299.2	298.2	(*)
56.0	55.6	(*)	152.1	150.8	(*)	65.7	64.4	(*)	194.4	202.9	(*)	155.2	152.6	(*)
55.5	57.2	(*)	196.6	199.2	(*)	41.2	41.7	(*)	179.1	181.1	(*)	130.7	120.8	(*)
6.6	6.5	(*)	24.2	24.2	(*)	5.1	5.4	(*)	21.5	21.6	(*)	18.5	19.0	(*)
4.5	4.3	(*)	18.4	17.9	(*)	3.0	3.1	(*)	15.9	16.8	(*)	10.9	11.4	(*)
6.1	5.9	(*)	25.1	25.4	(*)	5.0	5.1	(*)	17.5	17.0	(*)	20.1	19.1	(*)
2.0	2.0	(*)	8.5	8.7	(*)	1.8	1.8	(*)	7.6	7.7	(*)	5.6	5.8	(*)
6.5	6.2	(*)	28.5	29.3	(*)	3.2	3.4	(*)	19.4	20.5	(*)	17.3	16.9	(*)
13.8	13.7	13.5	76.1	75.6	75.9	18.3	18.3	18.4	69.7	71.3	71.7	56.9	57.5	57.0
13.7	13.3	13.1	77.1	77.8	78.3	18.4	18.2	18.3	68.4	70.0	70.3	53.6	54.2	53.7
43.0	45.6	46.1	189.9	202.1	204.3	40.1	40.7	41.5	136.7	142.7	144.7	202.6	212.6	212.4
7.3	7.6	7.3	26.2	26.7	26.7	5.0	5.0	5.0	18.7	19.2	19.7	39.4	39.9	40.2
8.2	8.4	8.5	30.5	32.5	32.9	11.2	12.2	12.2	22.4	22.7	22.7	44.2	50.1	48.5
9.3	9.4	9.4	41.6	41.7	41.8	8.1	8.1	8.2	31.3	32.6	32.2	26.3	29.1	28.1
12.2	12.3	12.1	62.7	61.6	63.0	9.7	10.1	10.5	46.7	47.4	49.8	56.7	57.0	56.8
1.7	1.6	1.6	7.8	8.0	8.0	1.3	1.3	1.4	6.1	5.1	5.1	5.7	5.5	4.6
4.1	4.3	4.3	15.0	15.8	16.3	2.6	2.6	2.6	10.0	11.1	11.1	6.7	6.3	7.2
73.9	75.2	75.8	341.2	348.6	350.5	70.4	73.4	74.0	242.8	246.9	247.7	280.6	289.5	286.3
6.3	6.4	6.4	29.7	30.8	30.6	8.6	8.1	8.1	24.8	25.1	25.3	28.4	29.6	29.3
7.3	7.4	7.5	38.1	38.8	38.6	6.8	7.0	7.0	26.5	27.6	27.6	41.6	39.2	41.1
21.6	22.1	22.2	87.6	87.2	87.7	18.2	18.4	18.7	63.7	65.0	65.4	63.7	63.2	64.0
16.4	16.9	17.1	70.7	71.4	72.8	20.0	19.7	19.8	61.1	63.4	64.0	53.7	55.7	55.9
294.3	298.5	301.9	1,175.1	1,182.6	1,189.7	259.7	266.2	269.7	816.0	855.5	854.8	834.9	877.0	856.6
6.3	6.5	6.6	20.2	20.5	20.6	3.2	3.2	3.3	12.4	12.6	12.7	10.3	11.5	10.3
5.5	5.6	5.7	35.8	36.3	36.7	9.8	9.7	9.9	28.4	30.6	30.5	69.2	71.8	69.4
10.4	9.8	10.1	27.5	28.0	28.3	4.8	5.0	4.9	20.1	20.3	20.3	17.6	18.3	18.1
5.7	5.8	5.8	25.8	26.5	26.6	4.9	5.0	5.1	16.4	17.2	17.2	21.9	22.5	21.8
75.0	76.9	77.4	303.3	317.5	319.9	83.1	85.9	87.4	198.3	207.1	207.9	150.0	154.9	151.8
9.8	9.4	9.5	34.7	34.2	34.4	6.4	6.3	6.4	22.3	22.0	21.9	27.2	28.9	27.3
5.5	5.5	5.2	11.8	12.4	12.6	4.2	4.5	4.6	10.2	10.6	10.8	15.6	16.7	17.2
78.1	81.6	82.4	268.6	285.8	291.0	62.3	64.1	64.9	215.6	223.6	225.0	125.1	132.6	130.3
4.4	4.5	4.5	23.2	24.7	24.6	3.7	3.8	3.9	13.5	14.2	14.2	14.0	17.2	14.7
14.5	14.6	15.0	83.1	81.9	82.0	21.4	22.6	23.0	61.9	62.3	61.9	88.8	90.0	89.4

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued**

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
<b>TEXAS—Continued</b>												
1 Waco .....	61.0	62.3	62.2	(1)	(1)	(1)	2.9	3.1	3.3	14.4	14.5	14.4
2 Wichita Falls .....	45.1	47.0	46.7	2.2	2.2	2.3	2.8	2.8	2.8	7.5	8.0	8.1
<b>UTAH</b>												
3 Salt Lake City—Ogden .....	464.2	476.2	462.2	13.8	14.7	15.4	30.0	26.4	28.3	70.8	74.5	76.4
4 .....	333.0	344.7	344.9	6.3	7.0	7.0	20.4	18.2	19.1	47.3	49.8	50.1
<b>VERMONT</b>												
5 Burlington .....	168.8	173.7	176.6	.7	.7	.7	8.9	9.1	10.1	41.5	42.6	43.2
6 .....	43.6	46.2	45.8	-	-	-	-	-	-	9.9	10.5	10.8
7 Springfield .....	12.4	12.7	13.2	-	-	-	-	-	-	5.0	5.2	5.3
<b>VIRGINIA</b>												
8 .....	1,871.4	1,895.2	1,920.7	22.1	22.5	22.8	117.3	118.6	122.9	387.8	392.4	398.0
9 Bristol .....	24.8	25.2	25.3	(1)	(1)	(1)	1.1	1.1	1.1	8.7	8.6	8.7
10 Lynchburg .....	61.4	62.4	62.9	(1)	(1)	(1)	2.8	3.0	3.0	26.9	27.5	27.8
11 Newport News—Hampton .....	136.7	138.2	138.8	(1)	(1)	(1)	6.9	7.2	7.5	32.5	33.7	33.6
12 Norfolk—Virginia Beach—Portsmouth .....	255.8	255.2	258.8	(1)	(1)	(1)	15.3	16.6	17.0	26.2	27.0	27.5
13 Northern Virginia .....	368.9	369.4	375.9	.3	.3	.4	25.2	24.1	25.8	13.5	14.0	14.1
14 Petersburg—Colonial Hts.—Hopewell .....	44.1	44.4	44.4	(1)	(1)	(1)	2.1	2.3	2.3	12.8	12.5	12.4
15 Richmond .....	290.0	291.0	293.2	.4	.3	.3	16.4	17.4	18.2	52.0	50.8	51.2
16 Roanoke .....	99.0	97.5	98.8	.2	.2	.2	5.7	5.6	5.6	21.6	20.8	21.1
<b>WASHINGTON</b>												
17 .....	1,247.8	1,281.6	(*)	2.0	2.0	(*)	55.5	60.6	(*)	245.9	253.9	(*)
18 Seattle—Everett .....	582.7	614.2	(*)	(1)	(1)	(*)	24.3	29.1	(*)	118.0	123.5	(*)
19 Spokane .....	106.1	108.1	(*)	(1)	(1)	(*)	6.3	5.3	(*)	14.4	15.0	(*)
20 Tacoma .....	119.5	124.4	(*)	(1)	(1)	(*)	5.5	6.2	(*)	20.0	19.1	(*)
<b>WEST VIRGINIA</b>												
21 .....	598.6	613.4	618.7	70.3	71.5	74.5	33.6	38.7	40.0	124.5	126.4	127.0
22 Charleston .....	103.4	102.7	103.4	6.3	6.2	6.2	6.5	6.0	6.1	18.8	19.1	19.3
23 Huntington—Ashland .....	97.3	96.5	96.0	.8	.8	.8	6.1	5.5	5.5	28.5	28.1	28.3
24 Parkersburg—Marietta .....	51.5	51.2	52.3	.4	.4	.4	2.2	2.2	2.3	16.6	16.1	16.9
25 Wheeling .....	64.2	64.2	64.3	8.4	8.2	8.5	3.0	2.3	2.4	13.9	14.3	14.3
<b>WISCONSIN</b>												
26 .....	1,742.4	1,780.8	1,815.0	2.8	2.5	2.6	68.4	74.1	79.5	517.7	516.2	531.5
27 Appleton—Oshkosh .....	108.5	108.9	110.4	(1)	(1)	(1)	5.3	5.0	5.3	41.2	40.9	41.6
28 Green Bay .....	68.2	69.2	70.8	(1)	(1)	(1)	3.5	3.7	4.0	20.1	19.9	20.7
29 Kenosha .....	42.0	41.6	41.9	(1)	(1)	(1)	1.0	1.0	1.0	18.2	17.2	17.5
30 La Crosse .....	35.7	37.4	37.3	(1)	(1)	(1)	1.2	1.6	1.6	9.3	9.0	9.2
31 Madison .....	142.9	149.4	148.1	(1)	(1)	(1)	6.3	6.5	6.8	17.3	17.5	18.1
32 Milwaukee .....	610.7	615.1	623.2	(1)	(1)	(1)	19.3	21.4	22.7	200.0	196.5	199.8
33 Racine .....	63.7	65.6	66.7	(1)	(1)	(1)	1.4	1.8	1.8	26.9	27.3	27.7
<b>WYOMING</b>												
34 .....	162.8	165.8	174.8	20.7	23.1	24.0	16.4	16.6	18.5	8.5	8.1	8.5
35 Casper .....	28.2	29.3	30.0	5.0	5.2	5.4	2.6	2.4	2.6	1.6	1.7	1.8
36 Cheyenne .....	24.5	24.5	24.9	(1)	(1)	(1)	1.6	1.7	1.8	1.4	1.4	1.4

<sup>1</sup> Combined with services.

<sup>2</sup> Based on the 1967 Standard Industrial Classification Manual and adjusted to 1974 benchmark.

<sup>3</sup> Combined with construction.

<sup>4</sup> Based on 1967 Standard Industrial Classification.

<sup>5</sup> Area included in Chicago—Gary Standard Consolidated Statistical Area.

<sup>6</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

<sup>7</sup> Subarea of New York—Northeastern New Jersey.

<sup>8</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>9</sup> Area included in New York and Nassau—Suffolk combined SMSA's.

<sup>10</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>11</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

<sup>12</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

<sup>13</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

<sup>14</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

<sup>15</sup> Based on 1972 Standard Industrial Classification and adjusted to 1976 benchmark; not strictly comparable with previously published data.

<sup>16</sup> Total includes data for industry divisions not shown separately. Services excludes agriculture, forestry, and fisheries.

<sup>17</sup> Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p=preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8. Employees on nonagricultural payrolls for States and selected areas, by industry division—Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	
3.0	3.0	3.0	13.7	14.3	14.3	3.6	3.6	3.6	12.0	13.0	12.3	11.4	10.8	11.3	1
2.2	2.3	2.3	11.4	11.7	11.7	2.0	2.1	2.1	6.8	6.8	6.9	10.2	11.1	10.5	2
28.7	29.0	30.0	112.1	114.7	116.6	20.6	21.7	22.0	77.4	77.7	79.9	110.8	117.5	113.6	3
23.0	23.0	23.3	83.4	86.9	87.7	17.2	17.8	18.0	54.2	55.7	56.6	81.3	86.3	83.1	4
8.3	8.5	8.6	34.9	35.6	36.0	6.8	7.0	7.1	37.4	38.5	40.3	30.4	31.9	30.7	5
2.1	2.0	2.1	9.4	10.2	10.0	-	-	-	9.2	10.0	10.1	-	-	-	6
.8	.7	.8	2.0	1.9	2.0	-	-	-	2.3	2.4	2.5	-	-	-	7
109.3	109.1	109.7	387.8	390.0	394.2	87.8	89.9	91.3	322.6	328.5	332.8	436.7	444.2	449.0	8
.9	.9	.9	6.0	6.0	6.0	.9	.9	.9	3.2	3.4	3.4	4.0	4.3	4.3	9
2.6	2.6	2.7	10.0	9.6	9.7	2.7	2.7	2.7	8.1	8.1	8.3	8.3	8.6	8.7	10
4.6	4.3	4.5	24.7	24.9	24.8	4.4	4.4	4.4	26.7	26.2	26.0	36.9	37.5	37.8	11
18.3	17.9	18.2	61.2	61.7	62.8	13.3	12.9	13.0	45.6	44.8	45.4	75.4	74.3	74.9	12
26.3	25.9	26.6	87.3	88.0	88.4	21.9	22.5	23.4	85.1	85.7	87.6	109.3	108.9	109.6	13
1.4	1.4	1.4	7.8	8.0	7.9	1.1	1.2	1.2	5.4	5.4	5.4	13.5	13.6	13.8	14
18.2	18.0	18.0	66.0	67.3	67.8	22.5	22.9	22.9	51.2	51.1	52.0	63.3	63.2	62.8	15
10.1	9.9	9.9	23.7	23.5	23.4	5.4	5.4	5.4	18.4	18.0	18.2	13.9	14.1	15.0	16
74.0	75.0	(*)	293.0	297.6	(*)	68.6	70.5	(*)	229.8	238.5	(*)	279.0	283.5	(*)	17
41.4	43.6	(*)	139.9	151.6	(*)	40.6	43.2	(*)	110.3	114.9	(*)	108.2	108.3	(*)	18
7.4	7.4	(*)	28.7	29.4	(*)	6.3	6.0	(*)	23.4	24.5	(*)	19.6	19.9	(*)	19
5.5	5.6	(*)	29.3	31.5	(*)	5.7	5.6	(*)	24.4	26.3	(*)	29.1	30.1	(*)	20
40.1	40.5	40.7	117.6	120.0	120.7	18.8	18.6	18.8	84.4	97.0	87.1	109.3	110.7	110.1	21
8.8	8.5	8.5	23.3	23.2	23.2	4.5	4.5	4.5	16.9	17.1	17.2	18.3	18.2	18.4	22
9.4	9.0	9.1	19.8	19.9	19.9	3.3	3.3	3.4	13.5	13.3	13.4	16.0	16.6	15.8	23
2.3	2.3	2.3	11.3	11.4	11.5	1.7	1.8	1.8	7.6	7.7	7.6	9.1	9.3	9.4	24
3.7	3.6	3.7	13.5	13.5	13.5	2.4	2.4	2.4	11.9	12.2	12.2	7.4	7.6	7.3	25
83.0	84.2	84.9	393.8	407.3	413.3	78.0	79.3	81.2	310.2	324.8	329.6	288.4	292.5	292.4	26
4.0	3.9	3.9	21.8	21.9	22.1	4.2	4.2	4.3	17.5	17.7	18.2	14.5	15.3	15.0	27
4.7	4.4	4.5	16.0	16.4	16.6	2.1	2.2	2.3	12.0	12.7	12.5	9.8	9.9	10.2	28
1.3	1.4	1.4	7.9	8.0	8.2	.8	.8	.8	6.6	7.1	6.9	6.1	6.0	6.1	29
2.2	2.1	2.1	9.2	10.0	9.7	.9	.9	.9	7.7	8.1	8.1	5.3	5.7	5.8	30
5.4	4.9	5.2	30.3	32.7	32.5	9.3	9.7	10.0	25.3	25.8	25.7	49.0	52.2	49.7	31
31.1	31.6	31.6	134.7	134.5	135.2	33.2	33.6	33.7	116.8	122.4	122.1	75.8	75.3	76.1	32
2.2	2.3	2.4	12.6	12.8	12.9	1.7	1.8	1.9	10.3	10.8	10.9	8.6	8.9	9.1	33
13.2	13.3	13.4	36.9	37.0	39.7	5.2	5.6	5.8	25.7	23.6	27.0	36.2	38.5	37.9	34
2.1	2.2	2.2	7.1	7.4	7.6	1.2	1.3	1.3	4.0	4.3	4.3	4.6	4.8	4.8	35
3.4	3.4	3.4	5.5	5.8	5.9	1.3	1.3	1.3	4.3	4.1	4.2	7.0	6.8	6.9	36







**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
—	<b>TOTAL PRIVATE</b> .....	36.4	36.6	36.1	36.4	36.5	—	—	—	—	—
—	<b>MINING</b> .....	42.8	42.7	44.1	44.6	44.0	—	—	—	—	—
10	<b>METAL MINING</b> .....	43.1	42.0	41.3	41.0	—	—	—	—	—	
101	Iron ores .....	43.3	44.2	42.4	43.9	—	—	—	—	—	
102	Copper ores .....	42.2	39.5	39.1	37.5	—	—	—	—	—	
11,12	<b>COAL MINING</b> .....	39.2	(*)	41.2	42.7	—	—	—	—	—	
12	Bituminous coal and lignite mining .....	39.2	(*)	41.1	42.7	—	—	—	—	—	
13	<b>OIL AND GAS EXTRACTION</b> .....	44.6	44.7	46.4	46.3	—	—	—	—	—	
131,2	Crude petroleum and natural gas fields .....	40.5	41.6	42.0	42.0	—	—	—	—	—	
138	Oil and gas field services .....	46.8	46.2	48.4	48.2	—	—	—	—	—	
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	44.7	44.8	45.3	45.8	—	—	—	—	—	
142	Crushed and broken stone .....	45.2	44.8	46.3	46.6	—	—	—	—	—	
—	<b>CONTRACT CONSTRUCTION</b> .....	37.9	37.9	37.5	37.4	37.7	—	—	—	—	
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	36.9	36.9	36.8	36.8	—	—	—	—	—	
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	41.3	41.0	40.9	40.6	—	—	—	—	—	
161	Highway and street construction .....	42.7	42.1	42.0	41.2	—	—	—	—	—	
162	Heavy construction, nec .....	40.1	40.0	39.9	40.1	—	—	—	—	—	
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	36.9	37.2	36.5	36.3	—	—	—	—	—	
171	Plumbing, heating, air conditioning .....	38.3	38.4	38.2	38.3	—	—	—	—	—	
172	Painting, paper hanging, decorating .....	35.0	35.3	35.2	34.6	—	—	—	—	—	
173	Electrical work .....	38.2	38.2	37.7	37.2	—	—	—	—	—	
174	Masonry, stonework, and plastering .....	34.2	34.3	33.9	33.2	—	—	—	—	—	
176	Roofing and sheet metal work .....	34.1	34.3	32.7	32.9	—	—	—	—	—	
—	<b>MANUFACTURING</b> .....	40.4	40.0	40.3	40.8	40.1	3.2	3.1	3.3	3.5	
19,24,25,32-39	<b>DURABLE GOODS</b> .....	41.1	40.5	41.0	41.5	40.6	3.4	3.2	3.5	3.7	
20-23,26-31	<b>NONDURABLE GOODS</b> .....	39.4	39.2	39.3	39.7	39.3	3.0	3.0	3.0	4.2	
	<b>DURABLE GOODS</b>										
19	<b>ORDANCE AND ACCESSORIES</b> .....	41.2	40.5	41.0	41.0	39.9	2.6	2.9	2.6	2.6	
192	Ammunition, except for small arms .....	40.7	39.3	40.4	40.6	39.6	1.9	1.9	2.4	2.5	
1925	Complete guided missiles .....	41.4	39.3	40.8	41.1	—	—	—	—	—	
1929	Ammunition, exc. for small arms, nec. ....	39.5	39.2	39.8	39.8	—	—	—	—	—	
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	40.6	40.4	40.3	40.7	40.2	3.7	3.5	3.8	4.0	
242	Sawmills and planing mills .....	41.3	40.9	41.1	41.3	40.3	4.2	4.1	4.3	4.5	
2421	Sawmills and planing mills, general .....	41.4	41.2	41.2	41.3	—	—	—	—	—	
243	Millwork, plywood and related products .....	40.4	40.4	40.3	40.9	40.3	3.2	3.3	3.7	3.9	
2431	Millwork .....	39.5	39.3	39.3	40.0	—	—	—	—	—	
2432	Veneer and plywood .....	41.6	41.3	42.0	42.5	—	—	—	—	—	
244	Wooden containers .....	39.5	38.2	39.1	40.1	38.5	2.8	2.6	2.6	3.1	
2441,2	Wooden boxes, shooks, and crates .....	39.6	38.8	39.2	39.9	—	—	—	—	—	
249	Miscellaneous wood products .....	40.2	39.4	39.6	40.4	40.2	3.4	2.6	3.3	3.6	
25	<b>FURNITURE AND FIXTURES</b> .....	39.0	38.2	38.4	39.2	38.5	2.1	1.7	2.2	2.5	
251	Household furniture .....	38.7	37.9	38.0	38.7	38.1	2.0	1.5	2.1	2.3	
2511	Wood household furniture .....	39.5	38.7	38.8	39.5	—	2.4	2.0	2.7	2.8	
2512	Upholstered household furniture .....	37.3	36.6	36.7	37.3	—	—	—	—	—	
2515	Mattresses and bedsprings .....	37.8	37.0	36.9	37.5	—	—	—	—	—	
252	Office furniture .....	40.7	39.2	40.7	42.4	—	2.9	2.1	3.1	3.7	
254	Partitions and fixtures .....	39.9	39.3	39.2	39.6	—	2.7	2.9	2.1	2.4	
253,9	Other furniture and fixtures .....	38.9	38.4	39.2	39.9	39.2	2.0	1.6	1.6	2.3	
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	41.7	41.2	41.8	42.0	41.6	4.3	4.2	4.7	4.8	
321	Flat glass .....	44.2	42.6	42.7	42.9	—	5.6	5.2	7.0	7.5	
322	Glass and glassware, pressed or blown .....	40.9	40.5	40.4	40.6	40.3	4.0	4.2	3.9	3.9	
3221	Glass containers .....	41.1	40.8	40.7	40.8	—	—	—	—	—	
3229	Pressed and blown glass, nec. ....	40.5	40.0	39.9	40.3	—	3.0	3.3	3.0	2.9	
324	Cement, hydraulic .....	42.0	41.7	42.3	42.7	43.2	3.2	3.2	3.8	4.2	
325	Structural clay products .....	41.2	40.9	41.3	41.4	41.9	3.8	4.1	4.0	4.2	
3251	Brick and structural clay tile .....	41.9	41.9	41.2	41.4	—	—	—	—	—	
326	Pottery and related products .....	38.9	38.1	39.5	39.0	—	2.0	1.9	2.1	2.2	
327	Concrete, gypsum and plaster products .....	43.5	43.2	44.2	44.4	43.9	6.1	5.9	6.9	6.9	
328,9	Other stone and nonmetallic mineral products .....	41.0	40.2	41.0	41.4	40.8	3.2	2.9	3.7	3.8	
3291	Abrasive products .....	39.6	39.0	40.2	40.5	—	—	—	—	—	

See footnotes at end of table.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours					
		June 1976	July 1976	May 1977	June 1977P	July 1977P	June 1976	July 1976	May 1977	June 1977P	July 1977P	
	<b>DURABLE GOODS—Continued</b>											
33	<b>PRIMARY METAL INDUSTRIES</b>	41.3	41.0	41.5	41.7	40.6	3.7	3.6	3.7	3.7	—	
331	Blast furnace and basic steel products	41.1	41.0	41.1	41.4	(*)	3.0	3.2	2.8	2.9	—	
3312	Blast furnaces and steel mills	41.0	41.0	41.0	41.2	—	2.9	3.2	2.7	2.7	—	
332	Iron and steel foundries	41.6	40.8	41.3	41.6	(*)	4.6	4.4	4.3	4.3	—	
3321	Gray iron foundries	42.3	41.7	41.8	42.4	—	5.3	5.2	4.7	4.7	—	
3322	Malleable iron foundries	40.2	39.2	39.3	39.2	—	—	—	—	—	—	
3323	Steel foundries	40.3	39.2	40.8	40.3	—	3.4	2.8	3.8	3.8	—	
333,4	Nonferrous metals	41.6	41.7	41.2	41.2	(*)	3.5	4.0	3.4	3.5	—	
3334	Primary aluminum	41.8	42.2	41.2	41.4	—	—	—	—	—	—	
335	Nonferrous rolling and drawing	42.4	42.0	42.9	43.1	(*)	5.1	4.2	5.3	5.3	—	
3351	Copper rolling and drawing	43.5	42.1	44.0	44.1	—	—	—	—	—	—	
3352	Aluminum rolling and drawing	42.5	42.7	43.5	43.3	—	5.3	5.3	6.4	6.2	—	
3357	Nonferrous wire drawing and insulating	42.0	41.5	42.2	42.9	—	5.0	3.9	4.6	4.9	—	
336	Nonferrous foundries	40.5	40.2	41.3	41.5	(*)	3.4	3.0	3.8	3.7	—	
3361	Aluminum castings	40.6	40.2	41.9	41.9	—	—	—	—	—	—	
3362,9	Other nonferrous castings	40.3	40.1	40.5	41.0	—	—	—	—	—	—	
339	Miscellaneous primary metal products	39.7	40.1	41.1	41.9	(*)	3.3	3.4	4.3	4.3	—	
3391	Iron and steel forgings	39.9	40.2	40.8	41.8	—	—	—	—	—	—	
34	<b>FABRICATED METAL PRODUCTS</b>	41.3	40.6	41.0	41.6	40.6	3.5	3.2	3.5	3.8	—	
341	Metal cans	45.3	45.9	44.6	45.9	(*)	5.1	5.7	4.3	4.8	—	
342	Cutlery, hand tools, and hardware	40.6	39.9	41.1	40.8	39.7	3.0	2.7	3.4	3.3	—	
3421,3,5	Cutlery and hand tools, incl. saws	40.3	39.5	40.7	40.6	—	—	—	—	—	—	
3429	Hardware, nec	40.7	40.1	41.3	41.0	—	—	—	—	—	—	
343	Plumbing and heating, except electric	39.9	39.6	39.4	39.5	—	2.9	2.9	2.6	2.4	—	
3431,2	Sanitary ware and plumbers' brass goods	39.3	39.1	38.9	39.0	—	—	—	—	—	—	
3433	Heating equipment, except electric	40.4	40.1	39.9	40.1	—	—	—	—	—	—	
344	Fabricated structural metal products	40.5	40.0	40.3	40.8	(*)	2.9	2.7	2.8	3.2	—	
3441	Fabricated structural steel	41.7	41.1	41.1	41.7	—	3.6	2.6	2.9	3.3	—	
3442	Metal doors, sash, and trim	39.4	39.2	39.6	40.1	—	—	—	—	—	—	
3443	Fabricated plate work (boiler shops)	40.6	39.2	40.3	40.3	—	2.6	2.3	2.7	3.0	—	
3444	Sheet metal work	39.9	39.7	40.3	40.9	—	—	—	—	—	—	
3446,9	Architectural and misc. metal work	40.6	41.2	40.3	41.6	—	—	—	—	—	—	
345	Screw machine products, bolts, etc	41.9	41.5	42.3	42.9	41.5	3.9	3.6	4.5	4.9	—	
3451	Screw machine products	41.5	41.5	42.0	42.6	—	—	—	—	—	—	
3452	Bolts, nuts, rivets, and washers	42.2	41.6	42.6	43.3	—	—	—	—	—	—	
346	Metal stampings	42.7	41.3	41.4	43.0	(*)	5.1	4.1	4.7	5.6	—	
347	Metal services, nec	40.4	40.2	40.0	40.5	(*)	3.6	3.5	3.4	3.5	—	
348	Miscellaneous fabricated wire products	40.3	39.7	40.2	40.9	40.0	2.8	2.6	2.7	2.9	—	
349	Miscellaneous fabricated metal products	40.9	39.8	41.3	41.5	40.4	3.0	2.7	3.3	3.6	—	
3494,8	Valves, pipe, and pipe fittings	41.2	39.6	41.4	41.8	—	—	—	—	—	—	
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	41.2	40.8	41.4	41.9	41.2	3.1	3.0	3.5	3.8	—	
351	Engines and turbines	40.8	40.7	39.8	40.3	(*)	3.6	3.6	2.5	2.7	—	
3511	Steam engines and turbines	41.8	40.5	38.6	39.6	—	—	—	—	—	—	
3519	Internal combustion engines, nec	40.4	40.8	40.3	40.7	—	—	—	—	—	—	
352	Farm machinery	40.7	40.0	41.1	41.4	—	2.7	2.7	3.4	3.7	—	
353	Construction and related machinery	40.7	39.8	41.3	41.9	(*)	2.6	2.2	2.9	3.2	—	
3531,2	Construction and mining machinery	39.9	38.7	40.6	41.4	—	1.9	1.4	2.2	2.5	—	
3533	Oil field machinery	42.4	41.7	43.4	43.8	—	—	—	—	—	—	
3535,6	Conveyors, hoists, cranes, monorails	41.5	41.4	40.3	41.4	—	—	—	—	—	—	
3537	Industrial trucks and tractors	40.0	39.7	41.4	41.2	—	—	—	—	—	—	
354	Metal working machinery	41.8	41.4	42.8	43.4	43.0	3.9	3.9	5.0	5.4	—	
3541	Machine tools, metal cutting types	41.7	41.7	44.4	44.8	—	3.5	3.5	4.8	5.2	—	
3544	Special dies, tools, jig and fixtures	43.2	42.9	44.0	44.4	—	—	—	—	—	—	
3545	Machine tool accessories	40.8	40.8	41.7	42.4	—	3.2	3.4	4.0	4.3	—	
3542,8	Miscellaneous metal working machinery	40.0	38.9	40.0	41.2	—	—	—	—	—	—	
355	Special industry machinery	41.0	40.3	41.0	41.4	(*)	2.8	2.5	3.2	3.3	—	
3551	Food products machinery	41.3	40.6	40.7	40.8	—	—	—	—	—	—	
3552	Textile machinery	40.8	39.9	40.2	41.2	—	—	—	—	—	—	
3555	Printing trades machinery	41.0	39.6	40.8	40.8	—	—	—	—	—	—	
356	General industrial machinery	40.8	40.4	41.3	41.6	(*)	2.9	2.8	3.4	3.7	—	
3561	Pumps and compressors	40.8	39.9	42.3	42.6	—	2.7	2.5	4.2	4.6	—	
3562	Ball and roller bearings	41.3	41.1	41.5	41.7	—	3.6	3.5	3.9	3.9	—	
3564	Blowers and fans	41.7	41.4	41.1	40.8	—	—	—	—	—	—	
3566	Power transmission equipment	40.9	40.7	40.7	41.4	—	3.0	3.2	2.7	3.4	—	
357	Office and computing machines	42.0	42.0	41.2	42.0	41.1	2.9	2.7	2.7	3.0	—	
3573	Electronic computing equipment	42.1	42.4	41.5	42.4	—	—	—	—	—	—	
358	Service industry machines	40.6	40.6	39.5	39.9	40.1	2.6	2.8	2.5	2.8	—	
3585	Refrigeration machinery	40.9	41.2	38.9	39.3	—	2.6	3.1	2.5	2.8	—	
359	Miscellaneous machinery, except electrical	41.9	41.5	42.1	42.3	(*)	3.8	3.6	4.1	4.4	—	

See footnotes at end of table.



## ESTABLISHMENT DATA HOURS AND EARNINGS

### C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1976	July 1976	May 1977	June 1977 <sup>p</sup>	July 1977 <sup>p</sup>	June 1976	July 1976	May 1977	June 1977 <sup>p</sup>	July 1977 <sup>p</sup>
	<b>DURABLE GOODS—Continued</b>										
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES . . . . .</b>	40.3	39.5	40.1	40.6	39.7	2.4	2.1	2.4	2.6	—
361	Electric test and distributing equipment . . . . .	40.1	39.7	40.0	40.6	(*)	1.9	2.1	2.4	2.7	—
3611	Electric measuring instruments . . . . .	40.3	39.8	39.7	39.7	—	1.6	1.8	1.9	1.9	—
3612	Transformers . . . . .	40.5	39.9	40.5	41.1	—	—	—	—	—	—
3613	Switchgear and switchboard apparatus . . . . .	39.7	39.4	40.0	40.9	—	—	—	—	—	—
362	<b>Electrical industrial apparatus . . . . .</b>	40.2	39.3	40.5	40.9	39.5	2.5	2.3	2.6	2.9	—
3621	Motors and generators . . . . .	40.2	39.5	40.8	41.3	—	2.7	2.5	3.1	3.5	—
3622	Industrial controls . . . . .	39.7	38.3	39.1	39.6	—	1.9	1.9	1.4	1.8	—
363	<b>Household appliances . . . . .</b>	39.7	39.2	39.0	39.5	38.9	2.0	1.7	2.0	1.9	—
3632	Household refrigerators and freezers . . . . .	39.6	39.5	38.8	40.8	—	—	—	—	—	—
3633	Household laundry equipment . . . . .	39.1	39.3	37.1	37.3	—	—	—	—	—	—
3634	Electric housewares and fans . . . . .	39.4	38.7	38.8	38.9	—	2.0	1.5	1.7	1.7	—
364	<b>Electric lighting and wiring equipment . . . . .</b>	40.2	39.2	39.6	40.3	39.5	2.4	1.8	2.0	2.4	—
3641	Electric lamps . . . . .	41.1	40.4	40.9	41.5	—	2.3	1.4	1.8	2.0	—
3642	Lighting fixtures . . . . .	39.8	38.1	38.6	39.4	—	2.9	1.9	1.8	2.4	—
3643,4	Wiring devices . . . . .	40.1	39.4	39.8	40.4	—	2.2	1.9	2.3	2.5	—
365	Radio and TV receiving equipment . . . . .	39.5	37.7	38.2	38.9	37.2	2.1	1.7	1.8	1.9	—
366	Communication equipment . . . . .	40.7	39.9	41.3	41.4	(*)	2.3	1.6	2.6	2.8	—
3661	Telephone and telegraph apparatus . . . . .	41.1	40.3	41.9	42.0	—	—	—	—	—	—
3662	Radio and TV communication equipment . . . . .	40.3	39.6	40.8	41.0	—	2.3	1.9	2.3	2.5	—
367	Electronic components and accessories . . . . .	39.9	39.6	40.0	40.3	(*)	2.4	2.4	2.3	2.5	—
3671-3	Electron tubes . . . . .	40.9	39.8	41.2	41.9	—	2.2	1.3	2.0	2.4	—
3674,9	Other electronic components . . . . .	39.8	39.5	39.8	40.1	—	2.4	2.5	2.3	2.5	—
369	Miscellaneous electrical equip. and supplies . . . . .	41.9	40.8	40.8	41.8	40.6	3.6	3.0	3.6	3.9	—
3694	Engine electrical equipment . . . . .	42.5	41.4	40.7	42.3	—	—	—	—	—	—
37	<b>TRANSPORTATION EQUIPMENT . . . . .</b>	42.8	42.0	42.8	43.2	41.9	4.7	4.5	5.2	5.2	—
371	<b>Motor vehicles and equipment . . . . .</b>	44.9	43.9	45.1	45.7	(*)	6.4	6.1	7.1	7.0	—
3711	Motor vehicles . . . . .	46.6	44.9	46.5	46.9	—	7.4	7.1	8.1	7.4	—
3712	Passenger car bodies . . . . .	44.6	40.7	45.5	46.1	—	—	—	—	—	—
3713	Truck and bus bodies . . . . .	41.2	40.9	40.4	41.8	—	—	—	—	—	—
3714	Motor vehicle parts and accessories . . . . .	44.2	43.8	44.6	45.3	—	6.1	5.8	6.7	6.9	—
3715	Truck trailers . . . . .	39.1	38.8	40.1	40.2	—	—	—	—	—	—
372	<b>Aircraft and parts . . . . .</b>	40.7	40.6	41.7	41.8	(*)	2.7	2.9	3.2	3.4	—
3721	Aircraft . . . . .	40.7	40.7	41.6	41.9	—	2.2	2.6	2.4	2.7	—
3722	Aircraft engines and engine parts . . . . .	40.1	40.5	41.0	41.2	—	2.8	3.1	3.8	3.8	—
3723,9	Other aircraft parts and equipment . . . . .	41.6	40.3	42.7	42.5	—	3.5	3.2	4.2	4.4	—
373	<b>Ship and boat building and repairing . . . . .</b>	39.8	39.2	39.0	39.0	(*)	2.8	2.6	3.1	3.0	—
3731	Ship building and repairing . . . . .	39.8	39.2	38.9	(*)	—	—	—	—	—	—
3732	Boat building and repairing . . . . .	39.7	39.0	39.4	38.6	—	—	—	—	—	—
374	<b>Railroad equipment . . . . .</b>	38.9	39.2	40.3	40.9	—	1.3	1.6	2.3	2.6	—
375,9	Other transportation equipment . . . . .	40.4	39.6	38.9	39.2	—	2.9	2.6	2.6	2.7	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS . . . . .</b>	40.5	40.3	40.3	40.7	40.3	2.5	2.3	2.3	2.3	—
381	Engineering and scientific instruments . . . . .	40.6	40.6	41.3	41.3	—	2.4	2.4	3.0	2.9	—
382	Mechanical measuring and control devices . . . . .	40.4	39.9	40.5	40.8	(*)	2.8	2.4	2.6	2.6	—
3821	Mechanical measuring devices . . . . .	40.5	40.7	40.9	41.1	—	2.8	2.5	2.7	2.8	—
3822	Automatic temperature controls . . . . .	40.4	38.7	39.9	40.1	—	2.8	2.3	2.4	2.2	—
383,5	Optical and ophthalmic goods . . . . .	40.0	40.9	40.0	40.7	40.3	2.4	2.7	2.1	2.5	—
385	Ophthalmic goods . . . . .	39.3	39.8	38.9	39.3	—	2.1	2.1	1.7	1.9	—
384	Medical instruments and supplies . . . . .	39.8	39.2	39.2	39.8	38.6	2.2	1.6	2.1	2.1	—
386	Photographic equipment and supplies . . . . .	42.0	41.5	41.5	41.6	(*)	2.9	2.9	2.3	2.2	—
387	Watches, clocks, and watch cases . . . . .	40.0	39.3	39.2	39.8	—	1.9	1.8	1.7	1.8	—
39	<b>MISC. MANUFACTURING INDUSTRIES . . . . .</b>	38.7	38.4	39.0	39.3	38.3	1.9	1.7	2.0	2.0	—
391	Jewelry, silverware, and plated ware . . . . .	38.7	38.7	38.4	39.5	39.2	2.2	1.7	2.3	2.6	—
394	Toys and sporting goods . . . . .	38.4	38.2	38.6	38.8	—	1.7	1.6	1.7	1.6	—
3941-3	Games, toys, dolls and play vehicles . . . . .	37.9	38.4	37.8	38.6	—	—	—	—	—	—
3949	Sporting and athletic goods, nec . . . . .	38.9	38.0	39.5	39.1	—	—	—	—	—	—
395	Pens, pencils, office and art supplies . . . . .	40.4	40.8	40.1	39.7	—	2.2	2.2	2.3	1.7	—
396	Costume jewelry and notions . . . . .	37.9	36.6	38.8	39.3	—	1.7	1.4	1.8	1.9	—
393,9	Other manufacturing industries . . . . .	38.8	38.7	39.4	39.5	38.7	2.0	1.8	2.0	2.1	—
393	Musical instruments and parts . . . . .	39.2	39.6	39.1	39.4	—	1.5	1.3	1.4	1.3	—
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS . . . . .</b>	40.2	40.4	39.7	40.1	40.1	3.8	4.2	3.6	3.8	—
201	Meat products . . . . .	40.1	40.5	39.3	39.8	40.0	3.8	4.0	3.6	3.9	—
2011	Meat packing plants . . . . .	41.1	41.6	41.1	41.7	—	4.1	4.4	4.1	4.6	—
2013	Sausages and other prepared meats . . . . .	40.8	41.1	40.2	40.0	—	—	—	—	—	—
2015	Poultry dressing plants . . . . .	38.4	39.0	36.6	37.5	—	—	—	—	—	—

See footnotes at end of table.





**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1976	July 1976	May 1977	June 1977P	July 1977P	June 1976	July 1976	May 1977	June 1977P	July 1977P
	<b>NONDURABLE GOODS—Continued</b>										
	<b>FOOD AND KINDRED PRODUCTS—Continued</b>										
202	Dairy products .....	42.1	42.1	42.4	43.1	43.5	4.3	4.4	4.2	4.6	—
2024	Ice cream and frozen desserts .....	41.7	41.5	41.4	42.3	—	—	—	—	—	—
2026	Fluid milk .....	42.3	42.6	43.8	44.3	—	—	—	—	—	—
203	Canned, cured, and frozen foods .....	37.4	37.9	36.6	36.8	—	2.8	3.6	2.4	2.8	—
2031,6	Canned, cured, and frozen sea foods .....	35.6	37.3	33.2	33.1	—	—	—	—	—	—
2032,3	Canned food, except sea foods .....	37.7	38.3	37.4	37.1	—	—	—	—	—	—
2037	Frozen fruits and vegetables .....	37.3	36.8	36.4	37.1	—	—	—	—	—	—
204	Grain mill products .....	43.6	44.7	43.4	43.9	(*)	5.7	6.9	5.5	5.7	—
2041	Flour and other grain mill products .....	45.5	47.0	45.6	45.8	—	—	—	—	—	—
2042	Prepared feeds for animals and fowls .....	44.0	45.3	43.0	43.7	—	—	—	—	—	—
2045	Bakery products .....	39.6	39.6	38.9	39.3	(*)	3.7	3.8	3.5	3.4	—
2051	Bread, cake, and related products .....	39.5	39.4	38.9	39.2	—	—	—	—	—	—
2052	Cookies and crackers .....	39.8	40.1	39.1	39.5	—	—	—	—	—	—
206	Sugar .....	41.8	41.1	39.9	40.0	—	3.4	4.1	2.0	2.7	—
207	Confectionery and related products .....	39.4	39.3	39.1	39.4	(*)	2.3	2.5	2.2	2.1	—
2071	Confectionery products .....	39.0	39.1	38.5	38.7	—	—	—	—	—	—
208	Beverages .....	41.1	41.4	40.8	41.3	(*)	4.3	4.9	4.3	4.7	—
2082	Malt liquors .....	43.6	44.3	43.8	44.1	—	—	—	—	—	—
2086	Bottled and canned soft drinks .....	40.3	41.0	39.4	40.3	—	—	—	—	—	—
209	Miscellaneous foods and kindred products .....	42.5	41.8	41.2	41.6	(*)	4.9	4.6	4.0	4.1	—
21	<b>TOBACCO MANUFACTURES</b> .....	38.2	33.8	38.1	38.5	36.9	1.4	.9	1.9	1.6	—
211	Cigarettes .....	38.6	33.9	38.2	38.8	—	1.5	.8	2.1	1.9	—
212	Cigars .....	37.2	37.4	37.0	37.0	—	1.5	.7	.7	.5	—
22	<b>TEXTILE MILL PRODUCTS</b> .....	40.7	39.9	40.6	40.9	40.2	3.6	3.2	3.7	3.7	—
221	Weaving mills, cotton .....	41.8	41.0	40.7	40.6	(*)	4.4	3.6	3.9	3.8	—
222	Weaving mills, synthetics .....	41.3	41.4	41.4	41.6	(*)	3.8	3.8	3.6	3.6	—
223	Weaving and finishing mills, wool .....	41.9	41.2	40.8	40.9	—	4.1	4.0	3.4	3.4	—
224	Narrow fabric mills .....	40.3	39.0	30.5	40.2	(*)	3.6	2.4	3.1	3.0	—
225	Knitting mills .....	38.9	38.2	39.1	39.5	(*)	2.7	2.5	3.1	3.3	—
2251	Women's hosiery, except socks .....	38.0	37.2	37.6	38.1	—	—	—	—	—	—
2252	Hosiery, nec .....	38.3	37.9	38.4	39.1	—	—	—	—	—	—
2253	Knit outerwear mills .....	38.2	37.3	37.8	38.4	—	—	—	—	—	—
2254	Knit underwear mills .....	37.9	37.2	37.9	38.5	—	—	—	—	—	—
226	Textile finishing, except wool .....	41.3	39.4	41.4	41.8	(*)	4.2	3.0	4.0	4.2	—
227	Floor covering mills .....	41.3	41.4	41.2	42.1	—	3.6	3.6	4.0	4.6	—
228	Yarn and thread mills .....	40.9	40.1	41.2	41.6	(*)	3.7	3.5	4.0	4.1	—
229	Miscellaneous textile goods .....	41.0	40.2	41.4	41.9	(*)	3.6	2.9	4.2	4.2	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b> .....	35.9	35.6	35.5	36.1	35.6	1.3	1.0	1.1	1.3	—
231	Men's and boys' suits and coats .....	36.7	36.6	36.1	35.9	(*)	1.0	.6	.7	.7	—
232	Men's and boys' furnishings .....	36.9	36.6	35.7	36.6	36.4	1.2	1.0	1.0	1.1	—
2321	Men's and boys' shirts and nightwear .....	36.9	36.5	35.2	36.2	—	1.2	1.1	.8	.9	—
2327	Men's and boys' separate trousers .....	36.9	37.3	35.2	36.2	—	1.2	.9	.9	1.1	—
2328	Men's and boys' work clothing .....	37.0	36.1	36.7	37.4	—	1.2	.9	1.4	1.4	—
233	Women's and misses' outerwear .....	33.4	33.5	33.3	33.8	(*)	1.0	.8	.9	1.0	—
2331	Women's and misses' blouses and waists .....	34.1	34.6	34.0	34.1	—	—	—	—	—	—
2335	Women's and misses' dresses .....	31.8	32.4	32.4	32.7	—	.8	.7	.9	.8	—
2337	Women's and misses' suits and coats .....	33.5	33.2	32.6	33.8	—	1.2	1.0	.9	1.3	—
2339	Women's and misses' outerwear, nec .....	35.3	35.0	34.6	35.4	—	1.1	.9	1.1	1.3	—
234	Women's and children's undergarments .....	36.7	35.7	36.5	37.3	(*)	1.3	1.0	1.1	1.5	—
2341	Women's and children's underwear .....	36.7	36.2	36.5	37.4	—	—	—	—	—	—
2342	Corsets and allied garments .....	36.7	34.1	36.5	36.7	—	—	—	—	—	—
235	Hats, caps, and millinery .....	37.3	38.9	36.5	37.7	—	1.6	1.2	1.2	1.4	—
236	Children's outerwear .....	36.5	35.7	35.7	36.4	(*)	1.5	1.3	1.3	1.6	—
2361	Children's dresses and blouses .....	35.3	35.2	35.5	36.3	—	—	—	—	—	—
237,8	Fur goods and miscellaneous apparel .....	35.9	35.9	36.5	36.4	—	1.0	.8	1.1	1.1	—
239	Miscellaneous fabricated textile products .....	38.2	37.3	38.3	38.8	(*)	2.1	1.6	1.9	2.3	—
2391,2	Housefurnishings .....	37.2	36.5	37.3	38.1	—	—	—	—	—	—
26	<b>PAPER AND ALLIED PRODUCTS</b> .....	42.6	42.3	42.7	43.1	42.5	4.7	4.8	4.5	4.7	—
261,2,6	Paper and pulp mills .....	44.3	44.3	44.6	44.8	(*)	6.2	6.3	6.0	6.0	—
263	Paperboard mills .....	44.3	43.8	44.7	44.9	(*)	6.5	6.9	6.8	7.0	—
264	Miscellaneous converted paper products .....	41.3	41.0	40.7	41.3	40.9	3.5	3.6	3.0	3.4	—
2643	Bags, except textile bags .....	41.4	41.2	41.0	41.7	—	—	—	—	—	—
265	Paperboard containers and boxes .....	41.5	41.2	42.0	42.4	(*)	3.8	3.7	3.7	3.9	—
2651,2	Folding and setup paperboard boxes .....	41.4	40.7	40.8	41.5	—	—	—	—	—	—
2653	Corrugated and solid fiber boxes .....	41.4	41.3	42.5	42.9	—	4.2	4.1	4.3	4.4	—
2654	Sanitary food containers .....	42.3	42.0	42.6	42.8	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1976	July 1976	May 1977	June 1977P	July 1977P	June 1976	July 1976	May 1977	June 1977P	July 1977P
	<b>NONDURABLE GOODS—Continued</b>										
27	<b>PRINTING AND PUBLISHING</b> .....	\$211.88	\$213.19	\$225.75	\$228.46	\$228.84	\$5.65	\$5.67	\$6.02	\$6.06	\$6.07
271	Newspapers .....	216.32	217.06	224.43	228.46	(*)	6.27	6.31	6.64	6.68	(*)
272	Periodicals .....	215.05	217.50	237.50	229.64	—	5.75	5.80	6.25	6.14	—
273	Books .....	190.46	193.83	207.83	209.62	—	4.96	4.97	5.17	5.28	—
275	Commercial printing .....	217.32	218.27	232.93	235.68	236.68	5.63	5.64	6.05	6.09	6.10
2751	Commercial printing, except lithographic .....	209.83	211.46	222.68	227.54	—	5.45	5.45	5.86	5.91	—
2752	Commercial printing, lithographic .....	228.86	229.85	248.82	248.96	—	5.96	5.97	6.38	6.40	—
278	Blankbooks and bookbinding .....	169.69	170.48	183.77	184.39	184.71	4.34	4.36	4.70	4.68	4.70
274,6,7,9	Other publishing and printing ind. ....	217.88	219.40	232.80	237.00	235.95	5.63	5.64	6.00	6.00	6.05
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> ...	242.94	244.50	262.29	265.86	266.02	5.84	5.92	6.29	6.33	6.41
281	Industrial chemicals .....	273.65	277.62	298.78	306.16	(*)	6.50	6.61	7.03	7.12	(*)
2812	Alkalies and chlorine .....	275.20	286.44	320.29	323.95	—	6.40	6.60	7.38	7.43	—
2818	Industrial organic chemicals, nec. ....	302.60	306.29	324.09	332.21	—	7.12	7.19	7.59	7.69	—
2819	Industrial inorganic chemicals, nec. ....	255.03	261.02	284.85	288.91	—	6.19	6.32	6.75	6.83	—
282	Plastics materials and synthetics .....	238.78	240.12	258.74	260.60	262.28	5.74	5.80	6.19	6.19	6.23
2821	Plastics materials and resins .....	260.89	261.19	277.99	283.18	—	5.97	6.06	6.42	6.48	—
2823,4	Synthetic fibers .....	215.74	217.74	235.42	232.56	—	5.38	5.43	5.77	5.70	—
283	Drugs .....	224.00	222.77	235.17	235.31	(*)	5.45	5.46	5.85	5.81	(*)
2834	Pharmaceutical preparations .....	218.94	217.34	228.85	231.09	—	5.34	5.34	5.75	5.72	—
284	Soap, cleaners, and toilet goods .....	226.55	230.68	243.61	245.83	(*)	5.58	5.71	6.03	6.04	(*)
2841	Soap and other detergents .....	298.91	307.82	318.93	321.64	—	7.10	7.26	7.63	7.64	—
2844	Toilet preparations .....	186.91	181.34	194.82	194.04	—	4.72	4.71	4.97	4.95	—
285	Paints and allied products .....	225.72	221.53	242.53	246.86	244.32	5.40	5.39	5.83	5.92	5.93
287	Agricultural chemicals .....	217.75	221.65	244.16	247.24	(*)	5.16	5.29	5.60	5.71	(*)
2871,2	Fertilizers, complete and mixing only .....	203.52	205.58	229.60	233.70	—	4.80	4.93	5.23	5.36	—
286,9	Other chemical products .....	224.13	223.97	238.46	243.60	(*)	5.44	5.53	5.76	5.80	(*)
2892	Explosives .....	220.71	216.95	230.83	233.35	—	5.37	5.37	5.63	5.65	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> ....	300.04	303.74	327.59	331.19	337.56	7.11	7.13	7.69	7.72	7.76
291	Petroleum refining .....	322.76	325.50	359.97	359.55	368.92	7.74	7.75	8.45	8.48	8.52
295,9	Other petroleum and coal products .....	236.85	242.66	240.40	252.51	251.37	5.42	5.49	5.63	5.70	5.70
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b>	177.39	175.56	207.56	211.46	207.03	4.38	4.40	5.05	5.12	5.15
301	Tires and inner tubes .....	249.79	244.22	313.40	321.29	(*)	5.69	5.76	6.98	7.22	(*)
302,3,6	Other rubber products .....	186.24	182.49	203.18	209.30	(*)	4.61	4.62	4.98	5.08	(*)
302	Rubber footwear .....	124.49	123.76	130.31	131.39	—	3.42	3.40	3.58	3.59	—
307	Miscellaneous plastics products .....	166.03	165.97	177.24	179.38	176.57	4.13	4.17	4.42	4.44	4.47
31	<b>LEATHER AND LEATHER PRODUCTS</b> ...	129.65	127.53	135.40	138.68	134.67	3.43	3.41	3.63	3.64	3.63
311	Leather tanning and finishing .....	177.12	175.87	189.21	189.29	182.40	4.53	4.58	4.79	4.78	4.75
314	Footwear, except rubber .....	123.23	122.15	128.02	131.13	(*)	3.26	3.24	3.46	3.46	(*)
312,3,5,7,9	Other leather products .....	129.75	125.20	134.65	138.71	134.32	3.46	3.43	3.61	3.66	3.67
316	Luggage .....	128.50	125.32	139.48	143.96	—	3.54	3.53	3.78	3.87	—
317	Handbags and personal leather goods .....	125.87	120.29	131.00	135.26	—	3.33	3.26	3.55	3.55	—
—	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	256.80	259.69	273.20	274.69	279.05	6.42	6.46	6.83	6.85	6.89
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	306.43	306.42	310.03	(*)	—	6.84	6.98	7.16	(*)	—
411	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b> Local and suburban transportation .....	217.62	224.27	231.78	235.76	—	5.40	5.47	5.78	5.85	—
413	Intercity highway transportation .....	263.89	283.56	273.56	278.51	—	6.89	6.95	7.18	7.31	—
42	<b>TRUCKING AND WAREHOUSING</b> .....	264.31	262.75	278.64	284.95	—	6.51	6.44	6.88	6.95	—
421,3	Trucking and trucking terminals .....	270.25	269.37	286.12	292.11	—	6.64	6.57	7.03	7.09	—
422	Public warehousing .....	183.69	186.59	191.38	196.60	—	4.71	4.76	5.01	5.08	—
46	<b>PIPE LINE TRANSPORTATION</b> .....	303.32	311.41	342.36	337.55	—	7.38	7.45	8.21	7.85	—
48	<b>COMMUNICATION</b> .....	236.84	243.10	265.99	265.86	—	6.12	6.17	6.70	6.68	—
481	Telephone communication .....	239.09	246.02	270.64	270.52	—	6.21	6.26	6.80	6.78	—
4817	Switchboard operating employees <sup>3</sup> .....	177.07	181.63	199.63	200.22	—	5.27	5.28	5.82	5.77	—
4818	Line construction employees <sup>4</sup> .....	303.12	315.49	347.13	348.00	—	7.20	7.32	7.98	8.00	—
482	Telegraph communication <sup>5</sup> .....	254.62	265.02	288.00	(*)	—	6.18	6.28	6.89	(*)	—
483	Radio and television broadcasting .....	227.95	232.07	246.87	243.75	—	5.83	5.89	6.33	6.25	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
<b>NONDURABLE GOODS—Continued</b>											
27	PRINTING AND PUBLISHING .....	37.5	37.6	37.5	37.7	37.7	2.4	2.5	2.6	2.6	—
271	Newspapers .....	34.5	34.4	33.8	34.2	(*)	1.7	1.5	1.6	1.7	—
272	Periodicals .....	37.4	37.5	38.0	37.4	—	2.2	1.8	2.8	1.8	—
273	Books .....	38.4	39.0	40.2	39.7	—	2.3	2.4	4.5	4.0	—
275	Commercial printing .....	38.6	38.7	38.5	38.7	38.8	2.9	3.0	2.9	3.0	—
2751	Commercial printing, except lithographic .....	38.5	38.8	38.0	38.5	—	3.0	3.0	2.6	2.9	—
2752	Commercial printing, lithographic .....	38.4	38.5	39.0	38.9	—	2.8	2.9	3.3	3.1	—
278	Blankbooks and bookbinding .....	39.1	39.1	39.1	39.4	39.3	2.2	2.3	2.4	2.3	—
274,6,7,9	Other publishing and printing ind .....	38.7	38.9	38.8	39.5	39.0	2.4	2.9	2.5	2.7	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> .....	41.6	41.3	41.7	42.0	41.5	3.3	3.3	3.4	3.5	—
281	Industrial chemicals .....	42.1	42.0	42.5	43.0	(*)	3.8	3.9	3.6	4.0	—
2812	Alkalies and chlorine .....	43.0	43.4	43.4	43.6	—	—	—	—	—	—
2818	Industrial organic chemicals, nec .....	42.5	42.6	42.7	43.2	—	3.7	3.8	3.7	4.1	—
2819	Industrial inorganic chemicals, nec .....	41.2	41.3	42.2	42.3	—	3.6	3.6	3.2	3.4	—
282	Plastics materials and synthetics .....	41.6	41.4	41.8	42.1	42.1	2.9	3.0	3.3	3.4	—
2821	Plastics materials and resins .....	43.7	43.1	43.3	43.7	—	4.6	4.5	4.3	4.6	—
2823,4	Synthetic fibers .....	40.1	40.1	40.8	40.8	—	1.7	1.8	2.8	2.5	—
283	Drugs .....	41.1	40.8	40.2	40.5	(*)	2.8	2.9	2.6	2.7	—
2834	Pharmaceutical preparations .....	41.0	40.7	39.8	40.4	—	—	—	—	—	—
284	Soap, cleaners, and toilet goods .....	40.6	40.4	40.4	40.7	(*)	2.9	2.6	2.5	2.7	—
2841	Soap and other detergents .....	42.1	42.4	41.8	42.1	—	—	—	—	—	—
2844	Toilet preparations .....	39.6	38.5	39.2	39.2	—	—	—	—	—	—
285	Paints and allied products .....	41.8	41.1	41.6	41.7	41.2	3.8	3.4	3.7	3.9	—
287	Agricultural chemicals .....	42.2	41.9	43.6	43.3	(*)	3.9	3.7	5.4	4.9	—
2871,2	Fertilizers, complete and mixing only .....	42.4	41.7	43.9	43.6	—	—	—	—	—	—
286,9	Other chemical products .....	41.2	40.5	41.4	42.0	(*)	3.0	3.0	3.3	2.8	—
2892	Explosives .....	41.1	40.4	41.0	41.3	—	—	—	—	—	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	42.2	42.6	42.6	42.9	43.5	3.7	3.8	3.9	4.0	—
291	Petroleum refining .....	41.7	42.0	42.6	42.4	43.3	2.9	3.1	3.5	3.3	—
295,9	Other petroleum and coal products .....	43.7	44.2	42.7	44.3	44.1	5.9	5.8	5.1	6.1	—
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> .....	40.5	39.9	41.1	41.3	40.2	3.4	3.0	3.6	3.8	—
301	Tires and inner tubes .....	43.9	42.4	44.9	44.5	(*)	4.7	4.3	5.4	5.5	—
302,3,6	Other rubber products .....	40.4	39.5	40.8	41.2	(*)	3.4	2.8	3.2	3.6	—
302	Rubber footwear .....	36.4	36.4	36.4	36.6	—	.4	.4	1.2	1.2	—
307	Miscellaneous plastics products .....	40.2	39.8	40.1	40.4	39.5	3.2	2.9	3.2	3.3	—
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	37.8	37.4	37.3	38.1	37.1	2.0	1.7	1.8	2.0	—
311	Leather tanning and finishing .....	39.1	38.4	39.5	39.6	38.4	2.9	2.5	3.1	2.9	—
314	Footwear, except rubber .....	37.8	37.7	37.0	37.9	(*)	1.8	1.6	1.6	1.9	—
312,3,5-7,9	Other leather products .....	37.5	36.5	37.3	37.9	36.6	2.1	1.6	2.0	2.1	—
316	Luggage .....	36.3	35.5	36.9	37.2	—	1.8	1.2	2.6	2.3	—
317	Handbags and personal leather goods .....	37.8	36.9	36.9	38.1	—	2.4	1.9	1.8	2.3	—
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....											
<b>RAILROAD TRANSPORTATION:</b>											
4011	Class I railroads <sup>2</sup> .....	44.8	43.9	43.3	(*)	—	—	—	—	—	—
<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b>											
411	Local and suburban transportation .....	40.3	41.0	40.1	40.3	—	—	—	—	—	—
413	Intercity highway transportation .....	38.3	40.8	38.1	38.1	—	—	—	—	—	—
42	<b>TRUCKING AND WAREHOUSING</b> .....	40.6	40.8	40.5	41.0	—	—	—	—	—	—
421,3	Trucking and trucking terminals .....	40.7	41.0	40.7	41.2	—	—	—	—	—	—
422	Public warehousing .....	39.0	39.2	38.2	38.7	—	—	—	—	—	—
46	<b>PIPE LINE TRANSPORTATION</b> .....	41.1	41.8	41.7	43.0	—	—	—	—	—	—
48	<b>COMMUNICATION</b> .....	38.7	39.4	39.7	39.8	—	—	—	—	—	—
481	Telephone communication .....	38.5	39.3	39.8	39.9	—	—	—	—	—	—
4817	Switchboard operating employees <sup>3</sup> .....	33.6	34.4	34.3	34.7	—	—	—	—	—	—
4818	Line construction employees <sup>4</sup> .....	42.1	43.1	43.5	43.5	—	—	—	—	—	—
482	Telegraph communication <sup>5</sup> .....	41.2	42.2	41.8	(*)	—	—	—	—	—	—
483	Radio and television broadcasting .....	39.1	39.4	39.0	39.0	—	—	—	—	—	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
-	<b>TRANSPORTATION AND PUBLIC UTILITIES—Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	\$269.51	\$271.75	\$288.27	\$284.69	-	\$6.51	\$6.58	\$6.98	\$6.91	-
491	Electric companies and systems .....	268.45	275.64	295.94	292.73	-	6.50	6.61	7.08	7.02	-
492	Gas companies and systems .....	244.22	244.82	268.21	264.96	-	6.03	6.06	6.59	6.51	-
493	Combination companies and systems .....	309.01	306.45	314.06	306.59	-	7.34	7.42	7.66	7.57	-
494-7	Water, steam, and sanitary systems .....	218.40	220.70	230.45	232.27	-	5.25	5.28	5.58	5.57	-
-	<b>WHOLESALE AND RETAIL TRADE</b>	133.51	136.62	141.10	143.14	\$145.61	3.95	3.96	4.25	4.26	\$4.27
50	<b>WHOLESALE TRADE</b> .....	199.95	203.18	213.62	214.89	216.45	5.14	5.17	5.52	5.51	5.55
501	Motor vehicles and automotive equipment ..	184.80	182.49	190.61	193.55	-	4.62	4.62	4.90	4.90	-
502	Drugs, chemicals, and allied products .....	200.91	205.16	225.38	226.14	-	5.43	5.56	5.90	5.92	-
503	Dry goods and apparel .....	172.59	175.90	181.44	182.23	-	4.69	4.78	5.04	5.02	-
504	Groceries and related products .....	194.43	200.59	212.14	213.01	-	5.05	5.04	5.51	5.49	-
506	Electrical goods .....	219.23	221.65	223.26	222.05	-	5.44	5.50	5.71	5.65	-
507	Hardware, plumbing and heating equipment ..	191.00	191.78	203.31	203.06	-	4.91	4.93	5.24	5.22	-
508	Machinery, equipment, and supplies .....	219.05	221.35	236.59	236.56	-	5.49	5.52	5.90	5.87	-
509	Miscellaneous wholesalers .....	197.63	200.47	209.93	211.80	-	5.16	5.18	5.51	5.53	-
52-59	<b>RETAIL TRADE</b> .....	114.02	116.82	120.08	122.30	124.91	3.53	3.54	3.80	3.81	3.82
53	Retail general merchandise † .....	106.67	110.03	113.32	115.50	-	3.43	3.46	3.74	3.75	-
531	Department stores † .....	109.29	112.77	116.91	119.26	-	3.56	3.58	3.91	3.91	-
532	Mail order houses .....	142.80	144.66	151.80	155.31	-	4.25	4.28	4.60	4.65	-
533	Variety stores .....	85.79	89.05	86.44	89.08	-	2.85	2.91	2.94	3.03	-
54	<b>Food stores</b> .....	142.66	146.45	149.59	155.04	-	4.31	4.32	4.66	4.67	-
541-3	Grocery, meat, and vegetable stores .....	146.96	151.16	154.22	160.13	-	4.40	4.42	4.76	4.78	-
56	Apparel and accessory stores .....	97.60	99.83	99.37	100.80	-	3.20	3.21	3.38	3.36	-
561	Men's and boys' clothing and furnishings ..	123.44	128.70	126.04	126.55	-	3.81	3.96	3.89	3.87	-
562	Women's ready-to-wear stores .....	87.02	88.17	85.47	88.48	-	2.92	2.91	3.02	3.03	-
565	Family clothing stores .....	94.86	98.26	98.94	102.23	-	3.06	3.09	3.32	3.33	-
566	Shoe stores .....	97.28	98.21	103.82	102.90	-	3.32	3.22	3.63	3.50	-
57	<b>Furniture and home furnishings stores</b> ..	150.65	152.62	155.30	157.76	-	4.15	4.17	4.35	4.37	-
571	Furniture and home furnishings .....	154.76	155.98	159.76	162.54	-	4.24	4.25	4.45	4.49	-
58	<b>Eating and drinking places<sup>B</sup></b> .....	72.73	72.08	78.93	80.34	-	2.57	2.58	2.87	2.89	-
52,55,59	Other retail trade .....	144.26	146.59	151.06	153.09	-	3.92	3.93	4.15	4.16	-
52	Building materials and farm equipment ..	161.20	162.40	170.64	174.96	-	4.00	4.00	4.32	4.32	-
551,2	Motor vehicle dealers .....	195.23	196.91	206.06	210.14	-	4.93	4.96	5.23	5.32	-
553,9	Other automotive and accessory dealers ..	158.80	163.22	170.05	169.62	-	4.00	4.05	4.23	4.23	-
591	Drug stores and proprietary stores .....	105.77	110.14	109.70	111.78	-	3.39	3.41	3.55	3.56	-
594	Book and stationery stores .....	119.95	122.79	125.84	128.87	-	3.57	3.58	3.86	3.87	-
598	Fuel and ice dealers .....	174.10	175.78	186.51	186.28	-	4.43	4.45	4.77	4.74	-
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup></b> .....	158.84	160.01	167.63	166.53	168.09	4.34	4.36	4.58	4.55	4.58
60	<b>Banking</b> .....	134.32	135.79	139.73	139.78	-	3.67	3.71	3.86	3.84	-
61	Credit agencies other than banks .....	143.23	144.74	153.85	150.78	-	3.84	3.87	4.07	4.01	-
612	Savings and loan associations .....	139.08	140.93	148.06	144.67	-	3.80	3.84	3.98	3.91	-
62	Security, commodity brokers and services ..	285.72	288.00	293.71	286.15	-	7.46	7.50	7.77	7.57	-
63	<b>Insurance carriers</b> .....	168.14	168.97	179.15	177.82	-	4.52	4.53	4.79	4.78	-
631	Life insurance .....	164.42	166.21	175.11	174.64	-	4.48	4.48	4.72	4.72	-
632	Accident and health insurance .....	160.23	161.36	175.18	173.04	-	4.25	4.28	4.61	4.59	-
633	Fire, marine, and casualty insurance .....	172.04	171.95	182.63	181.76	-	4.60	4.61	4.87	4.86	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
	<b>TRANSPORTATION AND PUBLIC UTILITIES—Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	41.4	41.3	41.3	41.2	—	—	—	—	—	—
491	Electric companies and systems	41.3	41.7	41.8	41.7	—	—	—	—	—	—
492	Gas companies and systems	40.5	40.4	40.7	40.7	—	—	—	—	—	—
493	Combination companies and systems	42.1	41.3	41.0	40.5	—	—	—	—	—	—
494-7	Water, steam, and sanitary systems	41.6	41.8	41.3	41.7	—	—	—	—	—	—
	<b>WHOLESALE AND RETAIL TRADE</b>	33.8	34.5	33.2	33.6	34.1	—	—	—	—	—
50	<b>WHOLESALE TRADE</b>	38.9	39.3	38.7	39.0	39.0	—	—	—	—	—
501	Motor vehicles and automotive equipment	40.0	39.5	38.9	39.5	—	—	—	—	—	—
502	Drugs, chemicals, and allied products	37.0	36.9	38.2	38.2	—	—	—	—	—	—
503	Dry goods and apparel	36.8	36.8	36.0	36.3	—	—	—	—	—	—
504	Groceries and related products	38.5	39.8	38.5	38.8	—	—	—	—	—	—
506	Electrical goods	40.3	40.3	39.1	39.3	—	—	—	—	—	—
507	Hardware; plumbing and heating equipment	38.9	38.9	38.8	38.9	—	—	—	—	—	—
508	Machinery, equipment, and supplies	39.9	40.1	40.1	40.3	—	—	—	—	—	—
509	Miscellaneous wholesalers	38.3	38.7	38.1	38.3	—	—	—	—	—	—
52-59	<b>RETAIL TRADE</b>	32.3	33.1	31.6	32.1	32.7	—	—	—	—	—
53	Retail general merchandise	31.1	31.8	30.3	30.8	—	—	—	—	—	—
531	Department stores	30.7	31.5	29.9	30.5	—	—	—	—	—	—
532	Mail order houses	33.6	33.8	33.0	33.4	—	—	—	—	—	—
533	Variety stores	30.1	30.6	29.4	29.4	—	—	—	—	—	—
54	Food stores	33.1	33.9	32.1	33.2	—	—	—	—	—	—
541-3	Grocery, meat, and vegetable stores	33.4	34.2	32.4	33.5	—	—	—	—	—	—
56	Apparel and accessory stores	30.5	31.1	29.4	30.0	—	—	—	—	—	—
561	Men's and boys' clothing and furnishings	32.4	32.5	32.4	32.7	—	—	—	—	—	—
562	Women's ready-to-wear stores	29.8	30.3	28.3	29.2	—	—	—	—	—	—
565	Family clothing stores	31.0	31.8	29.8	30.7	—	—	—	—	—	—
566	Shoe stores	29.3	30.5	28.6	29.4	—	—	—	—	—	—
57	Furniture and home furnishings stores	36.3	36.6	35.7	36.1	—	—	—	—	—	—
571	Furniture and home furnishings	36.5	36.7	35.9	36.2	—	—	—	—	—	—
58	Eating and drinking places <sup>6</sup>	28.3	29.1	27.5	27.8	—	—	—	—	—	—
52,55,59	Other retail trade	36.8	37.3	36.4	36.8	—	—	—	—	—	—
52	Building materials and farm equipment	40.3	40.6	39.5	40.5	—	—	—	—	—	—
551,2	Motor vehicle dealers	39.6	39.7	39.4	39.5	—	—	—	—	—	—
553,9	Other automotive and accessory dealers	39.7	40.3	40.2	40.1	—	—	—	—	—	—
591	Drug stores and proprietary stores	31.2	32.3	30.9	31.4	—	—	—	—	—	—
594	Book and stationery stores	33.6	34.3	32.6	33.3	—	—	—	—	—	—
598	Fuel and ice dealers	39.3	39.5	39.1	39.3	—	—	—	—	—	—
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup></b>	36.6	36.7	36.6	36.6	36.7	—	—	—	—	—
60	Banking	36.6	36.6	36.2	36.4	—	—	—	—	—	—
61	Credit agencies other than banks	37.3	37.4	37.8	37.6	—	—	—	—	—	—
612	Savings and loan associations	36.6	36.7	37.2	37.0	—	—	—	—	—	—
62	Security, commodity brokers and services	38.3	38.4	37.8	37.8	—	—	—	—	—	—
63	Insurance carriers	37.2	37.3	37.4	37.2	—	—	—	—	—	—
631	Life insurance	36.7	37.1	37.1	37.0	—	—	—	—	—	—
632	Accident and health insurance	37.7	37.7	38.0	37.7	—	—	—	—	—	—
633	Fire, marine, and casualty insurance	37.4	37.3	37.5	37.4	—	—	—	—	—	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-2. Gross hours and earnings of production or nonsupervisory workers <sup>1</sup> on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1976	July 1976	May 1977	June 1977 <sup>p</sup>	July 1977 <sup>p</sup>	June 1976	July 1976	May 1977	June 1977 <sup>p</sup>	July 1977 <sup>p</sup>
	<b>SERVICES</b> .....	\$145.82	\$146.88	\$155.51	\$156.11	\$158.31	\$4.34	\$4.32	\$4.67	\$4.66	\$4.67
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels <sup>6</sup> .....	96.34	98.43	101.39	101.08	—	3.02	3.01	3.26	3.25	—
	Personal services:										
721	Laundries and dry cleaning plants .....	114.75	116.09	121.10	122.84	—	3.26	3.27	3.45	3.48	—
722	Photographic studios .....	116.88	115.93	124.68	128.51	—	3.51	3.44	3.86	3.93	—
	Motion pictures:										
781	Motion picture filming and distributing ...	267.49	275.81	280.39	292.72	—	6.54	6.63	7.34	6.92	—
806	Hospitals .....	144.14	145.46	156.28	158.00	—	4.19	4.18	4.61	4.62	—

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>2</sup> Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 or more.

<sup>3</sup> Data relate to employees in such occupations in the telephone industry as switchboard operators; service assistants; operating room instructors; and pay-station attendants. In 1975, such employees made up 30 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

<sup>4</sup> Data relate to employees in such occupations in the telephone industry as central office craft persons; installation and exchange repair craft persons; line, cable and conduit craft

persons; and laborers. In 1975, such employees made up 47 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

<sup>5</sup> Data relate to nonsupervisory employees except messengers.

<sup>6</sup> Money payments only; tips, not included.

<sup>7</sup> Data for nonoffice sales agents excluded from all series in this division.

<sup>†</sup> Beginning February 1977 data not strictly comparable with those previously published, due to change in pay practices of a large employer.

\*Not available.

p=preliminary.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1976	July 1976	May 1977	June <sup>p</sup> 1977 <sup>p</sup>	July <sup>p</sup> 1977 <sup>p</sup>	June 1976	July 1976	May 1977	June <sup>p</sup> 1977 <sup>p</sup>	July <sup>p</sup> 1977 <sup>p</sup>
	<b>SERVICES</b> .....	33.6	34.0	33.3	33.5	33.9	-	-	-	-	-
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels <sup>6</sup> .....	31.9	32.7	31.1	31.1	-	-	-	-	-	
	Personal services:										
721	Laundries and dry cleaning plants .....	35.2	35.5	35.1	35.3	-	-	-	-	-	
722	Photographic studios .....	33.3	33.7	32.3	32.7	-	-	-	-	-	
	Motion pictures:										
781	Motion picture filming and distributing ...	40.9	41.6	38.2	42.3	-	-	-	-	-	
806	Hospitals .....	34.4	34.8	33.9	34.2	-	-	-	-	-	

# ESTABLISHMENT DATA HOURS AND EARNINGS

## C-3. Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government

[Employment in thousands—includes both supervisory and nonsupervisory employees]

Item	1976										1977			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
<b>Executive Branch</b>														
Total employment . . . . .	2,681.2	2,686.0	2,707.8	2,724.1	2,704.2	2,668.0	2,661.1	2,670.3	2,674.4	2,645.8	2,654.9	2,662.8	2,664.0	
Average weekly hours . . . . .	39.2	39.2	39.3	39.4	39.4	39.3	39.9	39.6	40.4	39.4	39.5	39.3	39.2	
Average overtime hours . . . . .	.8	.9	.9	1.0	1.0	1.1	1.4	1.2	2.0	1.0	1.0	.9	.9	
Indexes (1967=100):														
Average weekly earnings . . . . .	195.5	196.6	195.7	196.1	196.5	199.5	209.7	208.6	215.9	208.9	209.2	208.7	208.7	
Average hourly earnings . . . . .	196.5	197.6	196.2	195.1	196.5	200.0	207.0	207.6	210.5	208.9	208.6	209.2	209.7	
<b>Department of Defense</b>														
Total employment . . . . .	930.7	930.2	936.7	938.5	929.3	917.2	918.0	920.4	919.6	918.4	917.6	918.4	917.4	
Average weekly hours . . . . .	39.8	39.8	40.0	40.1	40.0	39.9	39.9	40.2	40.0	39.9	40.0	39.9	39.6	
Average overtime hours . . . . .	.5	.6	.7	.6	.7	.9	.8	.8	.7	.7	.7	.7	.7	
Indexes (1967=100):														
Average weekly earnings . . . . .	191.1	-	191.2	188.2	191.5	195.1	201.5	204.4	203.7	202.3	204.2	203.9	204.3	
Average hourly earnings . . . . .	193.5	-	192.6	189.1	192.9	197.0	203.5	204.9	205.2	204.4	205.7	206.0	207.9	
<b>Postal service</b>														
Total employment . . . . .	670.3	670.6	672.8	670.7	667.8	662.8	657.9	664.9	685.7	650.0	649.9	652.3	650.7	
Average weekly hours . . . . .	39.2	39.3	39.0	39.7	39.4	39.6	42.1	40.6	43.8	40.4	40.4	39.6	39.7	
Average overtime hours . . . . .	1.0	1.1	.9	1.0	1.1	1.4	2.9	2.2	5.5	1.9	1.4	1.2	1.2	
Indexes (1967=100):														
Average weekly earnings . . . . .	219.8	223.2	220.9	224.5	223.8	226.8	243.7	237.6	267.8	240.0	238.0	233.3	234.9	
Average hourly earnings . . . . .	216.5	219.2	218.6	218.3	219.2	221.0	223.5	225.9	236.0	229.3	227.4	227.4	228.4	
<b>Other agencies</b>														
Total employment . . . . .	1,080.2	1,085.2	1,098.3	1,114.9	1,107.1	1,088.0	1,085.2	1,085.0	1,069.1	1,077.4	1,087.4	1,092.1	1,095.9	
Average weekly hours . . . . .	38.7	38.7	38.9	39.1	38.9	38.6	38.7	38.6	38.4	38.2	38.5	38.5	38.6	
Average overtime hours . . . . .	1.0	1.1	1.1	1.2	1.1	1.2	1.1	1.0	.9	.8	.9	.9	.9	
Indexes (1967=100):														
Average weekly earnings . . . . .	185.7	186.2	185.4	187.3	185.6	188.6	199.0	197.5	197.4	197.2	197.5	198.2	198.0	
Average hourly earnings . . . . .	186.1	186.6	184.9	185.9	185.1	189.6	199.5	198.5	199.5	200.2	199.0	199.8	199.0	

NOTE: Averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from all agencies of the executive branch of the Federal Government; the data cover both salaried workers and hourly paid wage-board employees. Since these

averages relate to hours and earnings of all workers, both supervisory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers.

## C-4. Average hourly earnings excluding overtime of production workers on manufacturing payrolls, by industry

Major industry group	Average hourly earnings excluding overtime <sup>1</sup>				
	June 1976	July 1976	May 1977	June 1977 <sup>p</sup>	July 1977 <sup>p</sup>
<b>MANUFACTURING</b>	\$4.96	\$5.00	\$5.34	\$5.37	\$5.41
<b>DURABLE GOODS</b>	5.31	5.35	5.70	5.74	5.75
Ordnance and accessories . . . . .	5.46	5.55	5.96	5.96	-
Lumber and wood products . . . . .	4.56	4.61	4.75	4.77	-
Furniture and fixtures . . . . .	3.85	3.88	4.12	4.14	-
Stone, clay, and glass products . . . . .	5.04	5.07	5.43	5.47	-
Primary metal industries . . . . .	6.48	6.54	7.08	7.12	-
Fabricated metal products . . . . .	5.21	5.21	5.50	5.56	-
Machinery, except electrical . . . . .	5.51	5.55	5.85	5.89	-
Electrical equipment and supplies . . . . .	4.70	4.78	5.10	5.12	-
Transportation equipment . . . . .	6.18	6.17	6.69	6.77	-
Instruments and related products . . . . .	4.68	4.74	4.99	5.00	-
Miscellaneous manufacturing industries . . . . .	3.90	3.93	4.20	4.20	-
<b>NONDURABLE GOODS</b>	4.45	4.52	4.81	4.83	4.90
Food and kindred products . . . . .	4.70	4.71	5.06	5.05	-
Tobacco manufactures . . . . .	5.13	4.94	5.45	5.71	-
Textile mill products . . . . .	3.44	3.57	3.69	3.73	-
Apparel and other textile products . . . . .	3.34	3.34	3.51	3.55	-
Paper and allied products . . . . .	5.10	5.18	5.51	5.56	-
Printing and publishing . . . . .	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	-
Chemicals and allied products . . . . .	5.61	5.69	6.05	6.08	-
Petroleum and coal products . . . . .	6.81	6.82	7.36	7.37	-
Rubber and plastics products, nec . . . . .	4.20	4.24	4.84	4.89	-
Leather and leather products . . . . .	3.34	3.34	3.54	3.54	-

<sup>1</sup> Derived by assuming that overtime hours are paid at the rate of time and one-half.

p = preliminary.

<sup>2</sup> Not available as average overtime rates are significantly above time and one-half. Inclusion of data for the group in the nondurable goods total has little effect.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-5. Gross and spendable average weekly earnings of production or nonsupervisory workers <sup>1</sup>  
on private nonagricultural payrolls, by industry division, in current and 1967 dollars**

Industry	Gross average weekly earnings			Spendable average weekly earnings					
				Worker with no dependents			Married worker with 3 dependents		
	June 1976	May 1977	June 1977 P	June 1976	May 1977	June 1977 P	June 1976	May 1977	June 1977 P
<b>TOTAL PRIVATE:</b>									
Current dollars	\$176.54	\$187.36	\$189.64	\$144.08	\$151.89	\$157.17	\$156.69	\$164.82	\$173.21
1967 dollars	103.79	103.74	104.31	84.70	84.10	86.45	92.12	91.26	95.28
<b>MINING:</b>									
Current dollars	270.50	300.32	305.06	212.42	233.03	234.22	228.08	250.71	259.11
1967 dollars	159.02	166.29	167.80	124.88	129.03	128.83	134.09	138.82	142.52
<b>CONTRACT CONSTRUCTION:</b>									
Current dollars	288.04	296.63	297.33	224.95	230.62	229.18	241.42	247.92	253.73
1967 dollars	169.34	164.25	163.55	132.25	127.70	126.06	141.93	137.28	139.57
<b>MANUFACTURING:</b>									
Current dollars	208.06	224.07	228.48	166.89	178.86	184.52	180.38	192.41	202.61
1967 dollars	122.32	124.07	125.68	98.11	99.04	101.50	106.04	106.54	111.45
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars	256.80	273.20	274.69	202.62	214.35	214.64	217.48	203.17	237.34
1967 dollars	150.97	151.27	151.09	119.12	118.69	118.06	127.85	127.45	130.55
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars	133.51	141.10	143.14	112.17	117.88	122.55	125.30	130.50	134.77
1967 dollars	78.49	78.13	78.73	65.94	65.27	67.41	73.66	72.26	74.13
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars	158.84	167.63	166.63	131.21	137.66	140.21	143.07	149.85	154.97
1967 dollars	93.38	92.82	91.60	77.14	76.22	77.12	84.11	82.97	85.24
<b>SERVICES:</b>									
Current dollars	145.82	155.51	154.11	121.42	128.71	132.30	133.72	140.49	146.74
1967 dollars	85.73	86.11	85.87	71.38	71.27	72.77	78.61	77.79	80.72
<b>CONSUMER PRICE INDEX (All items, 1967 = 100)</b>	170.1	180.6	181.8	NOTE: The Consumer Price Index is an estimate of the average change in prices of goods and services purchased by urban wage earners and clerical workers.					

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

p = preliminary (applicable to earnings data only).

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry division and major manufacturing group**

[1967 = 100]

Industry division and group	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
	Hours				
<b>TOTAL</b> .....	113.7	113.9	115.2	117.9	118.0
<b>GOODS-PRODUCING</b> .....	98.9	96.9	100.8	104.1	102.2
<b>MINING</b> .....	129.3	130.0	140.2	146.7	137.0
<b>CONTRACT CONSTRUCTION</b> .....	110.9	113.9	112.7	118.9	123.4
<b>MANUFACTURING</b> .....	95.8	92.7	97.4	100.1	97.2
<b>DURABLE GOODS</b> .....	95.3	91.6	97.8	100.4	96.9
Ordnance and accessories .....	40.3	39.2	40.3	40.6	39.5
Lumber and wood products .....	101.9	101.4	104.7	110.4	109.3
Furniture and fixtures .....	104.4	98.6	105.3	109.2	105.0
Stone, clay, and glass products .....	102.7	101.6	105.2	108.8	108.6
Primary metal industries .....	90.7	89.4	90.9	92.7	88.9
Fabricated metal products .....	99.9	95.8	102.5	105.9	101.5
Machinery, except electrical .....	95.2	92.7	99.6	101.8	99.7
Electrical equipment and supplies .....	92.5	88.2	96.1	98.6	95.3
Transportation equipment .....	94.6	86.7	97.1	99.0	93.4
Instruments and related products .....	110.0	107.8	111.8	113.7	111.6
Miscellaneous manufacturing .....	95.8	90.5	94.1	95.6	89.5
<b>NONDURABLE GOODS</b> .....	96.5	94.4	96.9	99.7	97.6
Food and kindred products .....	95.9	99.8	91.9	96.2	98.3
Tobacco manufactures .....	73.5	71.5	66.6	69.6	65.5
Textile mill products .....	100.4	95.3	100.1	102.2	98.7
Apparel and other textile products .....	92.5	85.9	88.6	91.6	86.9
Paper and allied products .....	98.8	96.8	99.2	101.9	99.8
Printing and publishing .....	93.0	92.6	94.6	95.2	94.5
Chemicals and allied products .....	99.9	99.2	102.9	104.9	103.5
Petroleum and coal products .....	115.6	117.5	120.0	125.0	129.5
Rubber and plastics products, nec .....	108.4	103.5	132.5	135.6	129.2
Leather and leather products .....	80.0	73.8	74.4	77.3	73.1
<b>SERVICE-PRODUCING</b> .....	124.0	125.6	125.2	127.5	125.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	103.2	104.1	103.6	105.1	105.8
<b>WHOLESALE AND RETAIL TRADE</b> .....	120.0	122.0	120.3	122.8	124.4
<b>WHOLESALE TRADE</b> .....	115.1	116.7	116.3	118.2	118.8
<b>RETAIL TRADE</b> .....	121.7	123.8	121.8	124.4	126.4
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	127.9	129.0	131.2	133.2	134.6
<b>SERVICES</b> .....	137.9	139.5	140.1	142.5	144.1

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

p = preliminary.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry division and major manufacturing group—Continued**

[1967 = 100]

Industry division and group	June 1976	July 1976	May 1977	June 1977 <sup>P</sup>	July 1977 <sup>P</sup>
	Payrolls				
<b>TOTAL</b> .....	205.7	206.8	223.5	229.6	230.4
<b>GOODS-PRODUCING</b> .....	183.0	181.5	199.7	208.0	205.6
<b>MINING</b> .....	256.3	260.6	299.6	315.0	292.7
<b>CONTRACT CONSTRUCTION</b> .....	204.8	212.7	216.8	229.7	239.3
<b>MANUFACTURING</b> .....	174.7	170.4	191.5	198.3	193.6
<b>DURABLE GOODS</b> .....	175.5	169.4	193.6	200.3	193.7
Ordnance and accessories .....	71.3	70.8	77.9	78.4	76.5
Lumber and wood products .....	205.3	206.3	220.1	233.6	234.0
Furniture and fixtures .....	177.7	168.2	191.6	200.5	192.4
Stone, clay, and glass products .....	192.9	192.2	213.8	222.9	224.6
Primary metal industries .....	183.8	183.0	201.2	206.3	198.9
Fabricated metal products .....	182.3	174.2	197.2	206.8	197.8
Machinery, except electrical .....	170.7	167.1	190.5	196.5	193.0
Electrical equipment and supplies .....	161.4	156.0	181.3	187.9	182.0
Transportation equipment .....	179.4	164.0	200.8	207.0	194.2
Instruments and related products .....	186.2	184.5	201.4	205.1	204.2
Miscellaneous manufacturing .....	162.9	154.8	172.5	175.4	164.5
<b>NONDURABLE GOODS</b> .....	173.2	172.1	187.9	194.8	193.3
Food and kindred products .....	178.9	187.7	184.0	192.8	198.6
Tobacco manufactures .....	169.5	157.5	163.8	178.7	167.8
Textile mill products .....	175.1	172.1	187.8	193.6	193.5
Apparel and other textile products .....	154.9	143.5	155.6	163.2	153.1
Paper and allied products .....	185.3	184.4	200.4	208.2	207.4
Printing and publishing .....	160.3	160.1	173.8	175.9	175.0
Chemicals and allied products .....	187.8	189.1	208.5	214.1	213.7
Petroleum and coal products .....	229.8	234.2	258.1	269.5	280.9
Rubber and plastics products, nec .....	172.9	165.6	243.6	252.8	242.2
Leather and leather products .....	132.7	121.9	130.5	135.9	128.3
<b>SERVICE-PRODUCING</b> .....	225.3	228.6	243.9	248.2	247.2
<b>TRANSPORTATION AND PUBLIC   UTILITIES</b> .....	204.6	207.9	218.6	222.6	225.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	211.0	215.4	227.9	232.8	236.6
<b>WHOLESALE TRADE</b> .....	205.7	209.7	223.0	226.4	229.1
<b>RETAIL TRADE</b> .....	213.8	218.2	230.5	236.2	240.6
<b>FINANCE, INSURANCE, AND   REAL ESTATE</b> .....	214.7	217.8	232.6	234.4	238.4
<b>SERVICES</b> .....	261.3	263.4	285.6	289.9	293.8

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

p = preliminary.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

**C-7. Average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted**

Industry	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>P</sup>	July <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	36.1	36.1	36.0	36.1	36.2	36.2	35.8	36.3	36.3	36.2	36.3	36.2	36.1
<b>MINING</b> .....	42.6	41.2	43.5	43.3	43.3	43.7	42.9	43.6	44.4	44.4	44.0	44.0	43.9
<b>CONTRACT CONSTRUCTION</b> .....	36.9	36.8	35.9	37.3	37.4	37.3	35.4	37.8	37.1	37.3	37.4	36.8	36.7
<b>MANUFACTURING</b> .....	40.1	40.0	39.7	39.9	40.1	40.0	39.5	40.3	40.4	40.3	40.4	40.5	40.3
<i>Overtime hours</i> .....	3.1	3.0	3.0	2.9	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.3
<b>DURABLE GOODS</b> .....	40.9	40.8	40.2	40.5	40.8	40.5	40.0	40.8	41.0	40.8	41.1	41.2	41.0
<i>Overtime hours</i> .....	3.3	3.1	3.0	3.0	3.2	3.3	3.4	3.3	3.4	3.6	3.7	3.6	3.6
Ordnance and accessories .....	40.9	40.7	40.1	40.6	40.6	41.0	40.5	40.6	40.6	41.2	41.1	40.9	40.3
Lumber and wood products .....	40.6	40.2	39.8	40.3	40.3	40.3	39.9	40.5	40.1	40.0	40.0	39.9	40.4
Furniture and fixtures .....	38.6	38.5	38.0	38.4	38.6	38.6	37.0	38.1	38.6	38.4	38.7	38.8	38.9
Stone, clay, and glass products .....	41.0	41.1	40.9	41.4	41.2	41.2	39.9	41.4	41.4	41.7	41.7	41.7	41.4
Primary metal industries .....	41.2	40.9	40.3	40.2	40.3	40.1	40.0	40.6	41.1	41.5	41.6	41.6	40.8
Fabricated metal products .....	41.0	41.0	40.6	40.4	40.8	40.5	39.9	40.8	41.0	40.7	41.0	41.3	41.0
Machinery, except electrical .....	41.5	41.4	40.8	41.2	41.5	41.2	40.6	41.3	41.5	41.3	41.6	41.9	42.0
Electrical equipment and supplies .....	40.1	40.1	39.7	40.0	40.3	40.2	39.4	40.6	40.3	40.0	40.1	40.4	40.3
Transportation equipment .....	42.0	41.9	41.1	41.2	42.0	41.1	41.4	41.4	42.8	41.9	42.7	42.9	41.9
Instruments and related products .....	40.8	40.4	39.9	40.3	40.4	40.7	39.8	40.8	40.4	40.1	40.4	40.7	40.8
Miscellaneous manufacturing, Ind. ....	38.8	38.5	38.2	38.7	39.0	38.9	38.2	39.5	39.3	38.9	39.0	39.1	38.7
<b>NONDURABLE GOODS</b> .....	39.1	38.9	39.0	39.1	39.2	39.3	38.7	39.6	39.5	39.5	39.5	39.6	39.3
<i>Overtime hours</i> .....	2.9	2.8	2.9	2.8	3.0	3.1	3.0	3.2	3.1	3.2	3.1	3.1	2.9
Food and kindred products .....	40.0	40.1	40.2	40.3	40.4	40.1	39.5	40.3	40.2	40.3	39.9	40.0	39.7
Tobacco manufactures .....	35.0	36.8	37.1	37.5	36.9	37.5	36.1	39.4	38.4	38.3	38.6	38.6	38.2
Textile mill products .....	40.2	39.3	39.0	39.4	39.8	40.1	39.7	40.5	40.8	40.5	40.7	40.5	40.5
Apparel and other textile products .....	35.5	35.2	34.9	35.0	35.1	35.3	34.2	35.7	35.6	35.1	35.7	36.0	35.5
Paper and allied products .....	42.3	42.1	42.2	42.1	42.4	42.6	41.9	42.7	42.8	43.3	43.0	42.9	42.5
Printing and publishing .....	37.7	37.5	37.4	37.5	37.6	37.7	37.4	37.9	37.7	37.7	37.6	37.7	37.8
Chemicals and allied products .....	41.4	41.3	41.9	41.6	41.7	41.7	41.6	41.7	41.8	41.9	41.7	41.9	41.6
Petroleum and coal products .....	42.2	42.3	42.2	42.0	41.9	42.5	42.3	42.5	43.0	42.7	42.6	42.7	43.1
Rubber and plastics products, nec .....	40.3	40.0	40.5	41.1	41.2	41.5	40.9	41.4	41.2	41.2	41.3	41.1	40.6
Leather and leather products .....	37.0	36.7	36.5	36.4	36.4	36.5	35.3	36.7	36.4	37.4	37.1	37.3	36.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	39.8	40.0	39.9	39.8	40.2	40.5	39.8	40.5	40.3	40.1	40.2	39.9	40.1
<b>WHOLESALE AND RETAIL TRADE</b> .....	33.6	33.6	33.6	33.5	33.4	33.6	33.2	33.4	33.5	33.5	33.4	33.3	33.3
<b>WHOLESALE TRADE</b> .....	39.1	38.9	38.8	38.7	38.7	38.6	38.7	39.1	38.9	39.0	38.7	38.9	38.8
<b>RETAIL TRADE</b> .....	32.0	32.0	32.1	32.0	31.9	32.2	31.6	31.8	31.9	31.9	31.9	31.7	31.7
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.6	36.8	36.7	36.7	36.7	36.7	36.8	36.6	36.7	36.6	36.7	36.6	36.6
<b>SERVICES</b> .....	33.4	33.5	33.5	33.6	33.5	33.5	33.5	33.6	33.5	33.5	33.5	33.3	33.3

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

p = preliminary.

**C-8. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>P</sup>	July <sup>P</sup>
<b>Average hourly earnings</b>													
<b>TOTAL PRIVATE</b> .....	\$4.88	\$4.91	\$4.92	\$4.95	\$5.00	\$5.02	\$5.07	\$5.09	\$5.12	\$5.17	\$5.20	\$5.22	\$5.25
<b>MINING</b> .....	6.44	6.34	6.60	6.62	6.62	6.67	6.67	6.72	6.78	6.79	6.82	6.85	6.86
<b>CONTRACT CONSTRUCTION</b> .....	7.77	7.74	7.71	7.76	7.81	7.82	7.94	7.88	7.90	7.95	7.96	8.04	8.06
<b>MANUFACTURING</b> .....	5.21	5.25	5.29	5.29	5.34	5.38	5.43	5.43	5.49	5.53	5.57	5.61	5.64
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	6.48	6.52	6.54	6.58	6.62	6.64	6.69	6.74	6.75	6.83	6.88	6.91	6.91
<b>WHOLESALE AND RETAIL TRADE</b> .....	3.98	4.00	4.03	4.05	4.08	4.11	4.15	4.18	4.19	4.23	4.24	4.26	4.29
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4.37	4.43	4.39	4.43	4.42	4.43	4.51	4.48	4.50	4.53	4.58	4.55	4.59
<b>SERVICES</b> .....	4.35	4.39	4.39	4.43	4.48	4.50	4.58	4.58	4.61	4.64	4.67	4.68	4.71
<b>Average weekly earnings</b>													
<b>TOTAL PRIVATE:</b>													
Current dollars .....	176.17	177.25	177.12	178.70	181.00	181.72	181.51	184.77	185.86	187.15	188.76	188.96	189.53
1987 dollars .....	103.02	103.17	102.74	103.29	104.32	104.32	103.37	104.21	104.18	104.09	104.34	103.88	-
Real spendable earnings (worker and 3 dependents, 1987 dollars) .....	91.47	91.51	91.14	91.51	92.24	92.18	91.36	91.86	91.75	91.58	91.69	94.93	-

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

p = preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED**

**C-9. Indexes of aggregate weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted**

[1967 = 100]

Industry division and group	1976						1977						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June <sup>P</sup>	July <sup>P</sup>
<b>TOTAL</b> .....	111.8	111.8	112.2	112.2	112.8	113.3	112.3	114.2	115.2	115.6	116.1	115.7	115.8
<b>GOODS-PRODUCING</b> .....	96.5	95.7	95.9	96.0	97.2	96.9	95.2	98.3	100.0	100.9	101.7	101.8	101.5
<b>MINING</b> .....	127.7	115.6	131.7	131.1	132.6	134.0	130.7	134.6	141.5	142.2	140.2	141.8	134.6
<b>CONTRACT CONSTRUCTION</b> .....	103.7	102.5	99.4	104.2	105.7	104.3	96.4	105.9	108.1	112.0	112.7	111.4	112.4
<b>MANUFACTURING</b> .....	94.2	93.9	94.0	93.2	94.5	94.4	93.8	95.7	97.1	97.5	98.5	98.8	98.5
<b>DURABLE GOODS</b> .....	93.5	93.6	93.2	92.0	93.8	93.6	93.2	94.8	96.8	96.8	98.1	98.7	98.5
Ordnance and accessories .....	40.0	39.8	38.6	38.5	38.5	39.5	39.0	39.1	38.5	40.8	41.3	41.1	39.9
Lumber and wood products .....	98.6	97.6	98.2	99.4	100.8	101.9	101.1	103.0	103.4	104.1	104.1	104.0	106.1
Furniture and fixtures .....	102.3	101.2	102.4	102.2	102.8	103.5	98.5	102.7	105.3	106.0	107.4	107.7	109.0
Stone, clay, and glass products .....	99.2	98.6	98.9	99.7	100.2	99.1	96.1	97.1	101.5	104.1	104.7	105.5	105.9
Primary metal industries .....	90.1	89.8	88.8	86.2	85.7	85.0	84.8	85.5	88.5	90.0	91.1	91.0	89.7
Fabricated metal products .....	98.0	98.6	98.6	96.5	98.1	98.1	97.6	100.0	101.6	101.0	103.1	104.2	103.9
Machinery, except electrical .....	95.9	95.9	95.9	94.0	96.7	96.0	95.7	97.7	98.6	98.3	100.5	101.2	103.3
Electrical equipment and supplies .....	90.5	92.2	91.5	92.1	93.4	93.1	91.7	95.5	95.9	96.1	97.3	98.0	97.8
Transportation equipment .....	90.3	90.7	89.1	86.1	91.5	90.6	93.3	91.3	96.7	94.8	96.2	97.0	94.2
Instruments and related products .....	110.3	108.1	107.2	107.9	108.5	110.4	108.9	112.4	111.6	111.1	112.3	113.2	113.8
Miscellaneous manufacturing, Ind. ....	93.1	91.8	92.2	92.0	92.1	91.6	93.1	96.8	96.0	95.1	95.0	94.1	92.2
<b>NONDURABLE GOODS</b> .....	95.2	94.2	95.2	95.0	95.4	95.5	94.7	97.1	97.6	98.5	98.9	98.9	98.5
Food and kindred products .....	97.0	96.5	96.4	96.2	96.6	95.5	95.1	97.5	97.9	98.8	97.2	97.3	95.5
Tobacco manufactures .....	82.3	84.0	82.1	83.0	81.6	81.6	76.1	83.0	75.5	80.7	77.2	78.6	75.1
Textile mill products .....	98.0	95.5	95.2	95.0	95.6	96.1	95.4	97.9	99.5	99.7	101.1	100.3	101.5
Apparel and other textile products .....	88.9	87.6	86.2	85.7	86.1	86.3	84.1	88.0	87.9	87.3	89.4	90.7	89.9
Paper and allied products .....	96.9	96.1	96.5	95.7	97.0	97.2	96.2	98.0	98.3	100.8	101.0	100.4	100.0
Printing and publishing .....	93.6	92.9	93.1	93.4	93.6	93.7	93.0	94.8	94.3	94.9	95.4	95.2	95.6
Chemicals and allied products .....	99.4	99.8	100.3	99.4	100.0	100.0	100.4	101.8	102.2	103.5	103.7	104.0	103.8
Petroleum and coal products .....	112.2	112.4	112.2	112.5	113.1	114.7	115.0	114.7	118.7	120.5	120.2	120.5	123.4
Rubber and plastics products, nec. ....	106.2	105.2	124.3	125.6	125.7	127.6	127.6	129.6	131.7	134.7	135.8	133.9	132.7
Leather and leather products .....	74.7	72.5	72.1	71.0	70.4	70.5	69.1	71.9	71.9	73.9	73.9	73.7	74.1
<b>SERVICE-PRODUCING</b> .....	122.5	123.0	123.6	123.5	123.5	124.6	124.1	125.3	125.8	125.8	126.6	125.3	125.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	102.1	102.5	102.9	102.0	103.2	105.0	102.7	104.4	104.2	103.9	104.4	103.4	103.9
<b>WHOLESALE AND RETAIL TRADE</b> .....	118.9	119.0	119.7	119.3	118.9	120.0	119.1	120.7	121.5	121.7	121.7	121.0	121.2
<b>WHOLESALE TRADE</b> .....	115.3	114.7	114.9	114.8	114.8	114.8	115.4	117.0	116.9	117.8	117.3	117.3	117.1
<b>RETAIL TRADE</b> .....	120.3	120.6	121.6	121.0	120.4	122.0	120.4	122.1	123.2	123.1	123.3	122.4	122.8
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	126.6	127.3	127.7	128.3	129.1	129.8	130.6	130.2	131.1	131.0	131.6	131.5	131.9
<b>SERVICES</b> .....	135.4	136.6	137.2	137.6	137.7	138.4	138.8	139.7	140.0	140.1	140.2	139.4	140.2

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

p = preliminary.

**C-10. Hours of wage and salary workers<sup>1</sup> in nonagricultural establishments, by industry division**

Industry division	Millions of hours (Annual rate) <sup>2</sup>			Percent change		
	MAY 1977	JUNE 1977 <sup>p</sup>	JULY 1977 <sup>p</sup>	July 1976 to July 1977	May 1977 to June 1977	June 1977 to July 1977
<b>TOTAL</b> .....	156,652	156,509	157,119	3.5	-0.1	0.4
<b>PRIVATE SECTOR</b> .....	126,781	126,529	126,751	3.8	-0.2	0.2
<b>MINING</b> .....	1,933	1,956	1,874	7.0	1.2	-4.2
<b>CONTRACT CONSTRUCTION</b> .....	7,509	7,419	7,468	7.9	-1.2	0.7
<b>MANUFACTURING</b> .....	40,931	41,044	41,015	4.2	0.3	-0.1
<b>DURABLE GOODS</b> .....	24,276	24,363	24,356	4.7	0.4	-0.0
<b>NONDURABLE GOODS</b> .....	16,655	16,681	16,659	3.6	0.2	-0.1
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	9,587	9,494	9,557	2.4	-1.0	0.7
<b>WHOLESALE AND RETAIL TRADE</b> .....	31,798	31,633	31,760	2.2	-0.4	0.2
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	8,550	8,542	8,576	4.5	-0.1	0.4
<b>SERVICES</b> .....	26,473	26,391	26,502	4.1	-0.3	0.4
<b>GOVERNMENT</b> .....	29,871	29,980	30,368	2.5	0.4	1.3

<sup>1</sup> Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods for Survey Studies*, BLS Bulletin 1910—Chapter 30, Productivity Measures: Private Economy and Major Sectors.

<sup>2</sup> "Annual rate" refers to total hours paid for 1 week in the month, expressed as a seasonally adjusted annual equivalent.

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

**C-11. Indexes of output and compensation per hour, unit costs, and prices,  
private business sector, seasonally adjusted**

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1974		1975				1976				1977
	1975	1976	IV	I	II	III	IV	I	II	III	IV	I	II
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons .....	112.0	116.6	108.6	109.0	111.8	114.0	113.5	115.5	116.5	117.3	117.3	119.1	118.5
Output .....	118.8	127.1	118.7	115.1	117.3	120.7	121.9	125.1	126.9	127.8	128.5	131.5	134.0
Hours .....	106.1	108.9	109.3	105.7	104.9	105.9	107.5	108.3	108.9	109.0	109.5	110.4	113.0
Compensation per hour .....	180.2	196.5	170.9	176.2	179.0	181.1	184.7	190.5	194.3	198.6	202.7	208.4	211.6
Real compensation per hour .....	111.8	115.2	110.9	112.0	112.2	111.2	111.6	113.8	114.8	115.6	116.7	117.7	117.0
Unit labor costs .....	160.9	168.5	157.3	161.7	160.2	158.9	162.8	164.9	166.9	169.2	172.8	175.1	178.5
Unit nonlabor payments .....	151.9	159.7	134.5	139.6	148.9	159.7	158.9	158.4	160.3	160.5	159.5	160.4	162.4
Implicit price deflator .....	157.8	165.4	149.5	154.1	156.3	159.2	161.4	162.6	164.6	166.2	168.2	170.0	173.0
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons .....	110.0	114.4	106.7	106.9	109.6	112.1	111.2	113.0	114.5	115.3	114.8	116.2	116.1
Output .....	118.8	127.5	118.9	115.3	117.2	120.8	122.0	125.4	127.4	128.4	128.8	131.8	134.3
Hours .....	108.0	111.4	111.4	107.9	106.9	107.7	109.7	111.0	111.3	111.4	112.2	113.4	115.7
Compensation per hour .....	177.6	193.1	168.4	173.2	176.2	179.2	182.0	186.9	191.1	195.2	198.7	204.3	208.0
Real compensation per hour .....	110.2	113.2	109.3	110.1	110.4	110.1	110.0	111.7	113.0	113.7	114.4	115.4	115.0
Unit labor costs .....	161.5	168.7	157.9	162.0	160.7	159.8	163.6	165.4	166.9	169.3	173.1	175.8	179.2
Unit nonlabor payments .....	147.6	157.2	129.9	136.7	145.2	154.3	153.4	155.0	156.6	159.0	158.1	157.2	159.7
Implicit price deflator .....	156.8	164.8	148.3	153.4	155.4	157.9	160.1	161.8	163.4	165.8	168.0	169.5	172.5
<b>MANUFACTURING:</b>													
Output per hour of all persons .....	116.3	124.2	111.5	109.4	114.1	120.6	121.4	122.2	123.9	125.4	125.1	125.1	126.3
Output .....	107.6	120.0	110.3	101.1	103.9	111.3	114.5	117.8	119.9	121.1	121.3	122.9	127.0
Hours .....	92.5	96.6	98.9	92.4	91.1	92.3	94.2	96.4	96.7	96.6	97.0	98.2	100.5
Compensation per hour .....	179.4	194.8	169.2	174.9	178.2	180.7	183.7	189.0	193.3	196.5	200.1	206.4	209.7
Real compensation per hour .....	111.3	114.2	109.8	111.2	111.7	111.0	111.0	113.0	114.3	114.4	115.2	116.5	115.9
Unit labor costs .....	154.3	156.9	151.8	159.9	156.1	149.8	151.3	154.7	156.0	156.7	159.9	165.0	166.0
<b>DURABLE GOODS</b>													
Output per hour of all persons .....	112.2	120.3	108.1	105.2	110.0	116.8	117.0	117.7	120.3	121.9	121.2	120.4	122.2
Output .....	102.5	114.9	108.3	97.7	99.1	105.7	107.8	111.4	114.7	117.0	116.5	117.6	122.4
Hours .....	91.3	95.5	100.2	92.9	90.1	90.5	92.2	94.6	95.4	95.9	96.2	97.6	100.1
Compensation per hour .....	180.9	196.9	169.3	175.0	179.5	182.7	186.0	191.5	196.0	198.5	201.2	207.8	211.7
Real compensation per hour .....	112.2	115.5	109.8	111.3	112.5	112.2	112.4	114.5	115.9	115.6	115.9	117.3	117.0
Unit labor costs .....	161.2	163.7	156.6	166.4	163.2	156.5	158.9	162.7	163.0	162.8	166.1	172.5	173.1
<b>NONDURABLE GOODS</b>													
Output per hour of all persons .....	123.0	130.5	117.3	116.5	120.8	126.9	128.5	129.2	129.9	131.3	131.7	132.4	133.1
Output .....	115.8	128.3	113.9	106.9	111.7	120.5	125.0	127.8	128.1	128.1	129.3	131.4	134.6
Hours .....	94.2	98.3	97.1	91.7	92.4	95.0	97.3	98.9	98.6	97.5	98.1	99.2	101.1
Compensation per hour .....	177.4	191.7	168.5	174.5	176.4	178.3	181.0	185.8	189.5	193.4	198.6	204.3	206.4
Real compensation per hour .....	110.1	112.5	109.3	111.0	110.6	109.5	109.4	111.1	112.0	112.6	114.3	115.4	114.1
Unit labor costs .....	144.3	147.0	143.7	149.8	146.0	140.5	140.9	143.8	145.9	147.3	150.8	154.3	155.1
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour .....	113.0	117.2	107.7	109.0	112.7	115.4	114.8	116.2	117.4	118.0	117.2	119.0	N.A.
Output .....	124.4	133.9	123.4	119.8	122.7	126.9	128.2	131.8	134.0	135.0	135.0	138.0	N.A.
Hours .....	110.1	114.3	114.6	110.0	108.8	109.9	111.6	113.4	114.2	114.4	115.1	116.0	N.A.
Compensation per hour .....	179.4	194.9	169.3	175.0	178.0	180.8	183.9	189.1	193.0	196.8	200.7	206.8	N.A.
Real compensation per hour .....	111.3	114.3	109.8	111.3	111.5	111.0	111.2	113.0	114.1	114.6	115.6	116.8	N.A.
Total unit costs .....	166.1	172.1	162.2	167.0	165.5	164.4	167.6	168.8	170.3	172.5	176.8	179.0	N.A.
Unit labor costs .....	158.8	166.3	157.2	160.6	157.9	156.6	160.2	162.7	164.5	166.8	171.2	173.9	N.A.
Unit nonlabor costs .....	188.8	190.1	177.8	186.9	189.3	188.5	190.6	187.7	188.3	190.1	194.1	195.0	N.A.
Unit profits .....	93.6	113.2	63.0	65.8	87.8	111.2	107.8	113.1	115.0	117.7	107.0	103.7	N.A.
Implicit price deflator .....	155.3	163.4	147.5	152.0	154.0	156.5	158.7	160.5	162.1	164.3	166.4	167.8	N.A.

NOTE: The productivity and cost measures included in this table are based on revised output and compensation measures from the Bureau of Economic Analysis of the U.S. Department of Commerce.

N.A. - Not available.

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

**C-12. Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, private business sector, seasonally adjusted at annual rate**

Item	Quarterly percent change						Annual percent change					
	IV 1975 to I 1976	I 1976 to II 1976	II 1976 to III 1976	III 1976 to IV 1976	IV 1976 to I 1977	I 1977 to II 1977	I 1975 to I 1976	II 1975 to II 1976	III 1975 to III 1976	IV 1975 to IV 1976	I 1976 to I 1977	II 1976 to II 1977
	<b>PRIVATE BUSINESS SECTOR:</b>											
Output per hour of all persons .....	7.6	3.2	3.0	0.0	6.1	-1.8	6.0	4.2	3.0	3.4	3.0	1.8
Output .....	10.8	5.9	3.1	2.0	9.6	7.9	8.6	8.2	5.9	5.4	5.1	5.6
Hours .....	3.0	2.6	0.1	2.1	3.3	9.8	2.4	3.8	2.8	1.9	2.0	3.8
Compensation per hour .....	13.1	8.3	9.0	8.6	11.7	6.3	8.1	8.5	9.6	9.8	9.4	8.9
Real compensation per hour .....	8.2	3.6	2.7	3.9	3.3	-2.3	1.6	2.4	3.9	4.6	3.4	1.9
Unit labor costs .....	5.1	5.0	5.8	8.7	5.3	8.2	2.0	4.1	6.5	6.1	6.2	7.0
Unit nonlabor payments .....	-1.1	4.9	0.6	-2.6	2.3	5.1	13.5	7.7	0.6	0.4	1.2	1.3
Implicit price deflator .....	3.0	4.9	4.0	4.8	4.4	7.2	5.6	5.3	4.4	4.2	4.5	5.1
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons .....	6.5	5.4	2.8	-1.8	5.0	-0.4	5.7	4.4	2.8	3.2	2.8	1.4
Output .....	11.7	6.5	3.2	1.3	9.5	7.8	8.7	8.7	6.3	5.6	5.1	5.4
Hours .....	4.9	1.0	0.4	3.2	4.2	8.2	2.9	4.1	3.4	2.3	2.2	4.0
Compensation per hour .....	11.1	9.4	8.8	7.4	11.7	7.4	7.9	8.5	8.9	9.2	9.3	8.8
Real compensation per hour .....	6.3	4.6	2.5	2.7	3.2	-1.3	1.4	2.3	3.3	4.0	3.3	1.8
Unit labor costs .....	4.4	3.8	5.8	9.4	6.3	7.9	2.1	3.9	5.9	5.8	6.3	7.3
Unit nonlabor payments .....	4.1	4.4	6.1	-2.1	-2.2	6.4	13.3	7.9	3.0	3.1	1.5	2.0
Implicit price deflator .....	4.3	4.0	5.9	5.5	3.5	7.4	5.5	5.1	5.0	4.9	4.7	5.6
<b>MANUFACTURING:</b>												
Output per hour of all persons .....	2.6	5.8	4.7	-0.7	-0.2	4.0	11.7	8.6	3.9	3.0	2.3	1.9
Output .....	12.1	7.3	4.2	0.8	5.2	14.0	16.5	15.3	8.8	6.0	4.3	5.9
Hours .....	9.3	1.4	-0.5	1.5	5.4	9.6	4.2	6.2	4.7	2.9	2.0	3.9
Compensation per hour .....	12.1	9.5	6.7	7.5	13.2	6.5	8.1	8.5	8.7	8.9	9.2	8.4
Real compensation per hour .....	7.3	4.6	0.5	2.8	4.7	-2.1	1.6	2.3	3.1	3.8	3.1	1.4
Unit labor costs .....	9.3	3.5	1.9	8.3	13.4	2.4	-3.2	-0.1	4.6	5.7	6.7	6.4
<b>DURABLE GOODS</b>												
Output per hour of all persons .....	2.4	9.0	5.5	-2.4	-2.4	6.1	11.9	9.4	4.4	3.5	2.3	1.6
Output .....	13.8	12.6	8.0	-1.6	3.6	17.5	14.0	15.8	10.7	8.0	5.5	6.7
Hours .....	11.2	3.3	2.3	0.9	6.1	10.7	1.8	5.8	6.0	4.4	3.1	5.0
Compensation per hour .....	12.4	9.9	5.1	5.6	13.7	7.7	9.4	9.2	8.6	8.2	8.5	8.0
Real compensation per hour .....	7.6	5.0	-1.0	1.0	5.1	-1.0	2.9	3.0	3.0	3.1	2.5	1.0
Unit labor costs .....	9.8	0.8	-0.4	8.3	16.4	1.5	-2.2	-0.2	4.1	4.5	6.1	6.2
<b>NONDURABLE GOODS</b>												
Output per hour of all persons .....	2.3	2.1	4.5	1.2	2.2	2.0	10.9	7.5	3.5	2.5	2.5	2.5
Output .....	9.2	0.9	-0.1	3.7	6.7	10.1	19.6	14.7	6.3	3.4	2.8	5.0
Hours .....	6.7	-1.2	-4.4	2.5	4.4	7.9	7.9	6.7	2.7	0.8	0.3	2.5
Compensation per hour .....	11.1	8.2	8.6	11.1	12.1	4.2	6.5	7.4	8.5	9.7	10.0	8.9
Real compensation per hour .....	6.3	3.4	2.3	6.2	3.7	-4.2	0.1	1.3	2.9	4.6	3.9	1.9
Unit labor costs .....	8.6	5.9	3.9	9.8	9.7	2.1	-4.0	-0.1	4.8	7.0	7.3	6.3
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour .....	5.0	4.0	2.1	-2.5	6.0	N.A.	6.6	4.1	2.2	2.1	2.4	N.A.
Output .....	11.9	6.8	2.9	-0.1	9.4	N.A.	10.0	9.2	6.3	5.3	4.7	N.A.
Hours .....	6.6	2.6	0.8	2.5	3.2	N.A.	3.1	4.9	4.1	3.1	2.3	N.A.
Compensation per hour .....	11.8	8.6	8.1	8.1	12.8	N.A.	8.1	8.5	8.9	9.1	9.4	N.A.
Real compensation per hour .....	7.0	3.8	1.9	3.3	4.3	N.A.	1.6	2.3	3.2	4.0	3.3	N.A.
Total unit costs .....	3.0	3.5	5.3	10.3	5.2	N.A.	1.1	2.9	4.9	5.5	6.1	N.A.
Unit labor costs .....	6.5	4.4	5.9	10.9	6.4	N.A.	1.3	4.2	6.5	6.9	6.9	N.A.
Unit nonlabor costs .....	-5.9	1.4	3.8	8.9	1.7	N.A.	0.4	-0.5	0.8	1.9	3.9	N.A.
Unit profits .....	21.3	7.0	9.5	-31.7	-11.6	N.A.	71.9	30.9	5.8	-0.7	-8.3	N.A.
Implicit price deflator .....	4.7	3.9	5.7	5.1	3.5	N.A.	5.6	5.3	5.0	4.9	4.6	N.A.

NOTE: The productivity and cost measures included in this table are based on revised output and compensation measures from the Bureau of Economic Analysis of the U.S. Department of Commerce.

N.A. = Not available.

**ESTABLISHMENT DATA  
STATE AND AREA HOURS AND EARNINGS**

**C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
<b>ALABAMA</b>	\$178.73	\$195.94	\$197.15	40.9	40.4	40.4	\$4.37	\$4.85	\$4.88
Birmingham	219.78	238.21	242.13	40.4	41.0	40.9	5.44	5.81	5.92
Mobile	221.53	239.20	240.54	41.1	41.6	42.2	5.39	5.75	5.70
<b>ALASKA</b>	317.99	323.69	367.11	40.1	36.7	40.7	7.93	8.82	9.02
<b>ARIZONA</b>	203.94	218.14	222.71	35.6	40.1	40.2	5.15	5.44	5.54
Phoenix	203.26	218.56	219.35	39.7	40.4	40.1	5.12	5.41	5.47
Tucson	207.90	220.70	226.60	39.3	39.2	40.4	5.29	5.63	5.66
<b>ARKANSAS</b>	153.23	168.33	(*)	39.8	39.7	(*)	3.85	4.24	(*)
Fayetteville-Springdale	142.97	152.42	153.16	40.5	39.9	40.2	3.53	3.82	3.81
Fort Smith	150.44	166.50	170.04	37.8	38.1	39.0	3.98	4.37	4.36
Little Rock-North Little Rock	175.43	193.26	197.40	39.6	40.6	40.7	4.43	4.76	4.85
Pine Bluff	193.39	204.60	205.58	40.8	41.5	41.7	4.74	4.93	4.93
<b>CALIFORNIA</b>	222.60	237.79	241.40	40.0	40.1	40.3	5.57	5.93	5.99
Anaheim-Santa Ana-Garden Grove	208.87	221.82	222.63	40.4	40.7	40.7	5.17	5.45	5.47
Bakersfield	229.71	251.65	250.27	39.0	40.2	39.6	5.89	6.26	6.32
Fresno	198.92	216.65	219.06	38.7	40.8	41.1	5.14	5.31	5.33
Los Angeles-Long Beach	208.75	223.41	226.40	40.3	40.4	40.5	5.18	5.53	5.59
Modesto	203.24	224.63	233.92	36.1	37.5	38.6	5.63	5.99	6.06
Oxnard-Simi Valley-Ventura	192.45	199.68	199.05	38.8	39.0	38.5	4.96	5.12	5.17
Riverside-San Bernardino-Ontario	233.51	240.20	242.40	40.4	39.9	40.0	5.78	6.02	6.06
Sacramento	240.37	247.92	253.30	39.6	38.2	38.8	6.07	6.49	6.53
Salinas-Seaside-Monterey	195.38	217.34	218.68	37.5	38.4	37.9	5.21	5.66	5.77
San Diego	217.06	224.23	227.35	38.9	38.2	38.6	5.58	5.87	5.89
San Francisco-Oakland	273.03	290.07	293.46	39.8	39.9	40.2	6.86	7.27	7.30
San Jose	240.60	257.75	260.18	39.9	39.9	40.4	6.03	6.46	6.44
Santa Barbara-Santa Maria-Lompoc	192.02	207.64	205.35	37.8	39.4	38.6	5.08	5.27	5.32
Santa Rosa	213.07	220.41	226.37	38.0	38.2	39.3	5.52	5.77	5.76
Stockton	236.84	249.38	260.70	38.7	37.9	39.5	6.12	6.58	6.60
Vallejo-Fairfield-Napa	231.49	242.65	246.09	38.2	38.7	39.0	6.06	6.27	6.31
<b>COLORADO</b>	210.80	226.12	225.22	40.0	39.6	39.1	5.27	5.71	5.76
Denver-Boulder	211.33	255.27	225.03	39.5	39.8	39.0	5.35	5.66	5.77
<b>CONNECTICUT</b>	208.59	229.08	231.02	40.9	41.5	41.7	5.10	5.52	5.54
Bridgeport	224.27	236.30	237.84	42.8	42.5	42.7	5.24	5.56	5.57
Hartford	233.36	254.07	254.49	41.9	42.7	42.7	5.57	5.95	5.96
New Britain	205.90	239.97	241.82	40.6	42.7	42.8	5.17	5.62	5.65
New Haven-West Haven	207.43	225.89	230.72	40.2	40.7	41.2	5.16	5.55	5.60
Stamford	216.62	233.23	235.05	41.9	42.1	42.2	5.17	5.54	5.57
Waterbury	185.15	195.52	200.93	41.7	41.6	42.3	4.44	4.70	4.75
<b>DELAWARE</b>	225.63	221.75	229.25	41.6	38.7	39.8	5.52	5.73	5.76
Wilmington	255.64	259.52	267.30	41.5	39.5	40.5	6.16	6.57	6.60
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA	212.62	211.42	(*)	38.8	38.3	(*)	5.48	5.52	(*)
<b>FLORIDA</b>	175.87	185.14	186.81	40.9	40.6	40.7	4.30	4.56	4.59
Fort Lauderdale-Hollywood	176.30	183.87	188.21	41.0	41.6	42.2	4.30	4.42	4.46
Jacksonville	221.69	223.44	223.72	42.3	40.7	40.9	5.24	5.49	5.47
Miami	151.70	163.53	163.17	39.3	39.5	39.7	3.86	4.14	4.11
Orlando	179.63	200.28	201.72	41.2	41.9	42.2	4.36	4.78	4.78
Pensacola	212.85	229.27	234.00	41.9	42.3	42.7	5.08	5.42	5.48
Tampa-St. Petersburg	185.36	194.00	200.10	41.1	40.5	41.6	4.51	4.79	4.81
West Palm Beach-Boca Raton	215.13	212.13	216.63	42.6	40.1	41.5	5.05	5.29	5.22
<b>GEORGIA</b>	164.83	175.16	179.55	40.6	39.9	40.9	4.06	4.39	4.39
Atlanta	200.37	220.80	226.46	39.6	40.0	41.1	5.06	5.52	5.51
Savannah	221.36	234.12	235.52	42.9	42.8	42.9	5.16	5.47	5.49
<b>HAWAII</b>	191.88	201.82	197.40	39.4	37.1	37.6	4.87	5.44	5.25
Honolulu	183.05	194.03	189.52	38.7	36.2	36.8	4.73	5.36	5.15
<b>IDAHO</b>	211.60	218.66	238.34	39.7	38.7	40.3	5.33	5.65	5.92

See footnotes at end of table.



**ESTABLISHMENT DATA**  
**STATE AND AREA HOURS AND EARNINGS**

**C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
<b>ILLINOIS</b> .....	(*)	\$253.43	\$257.34	(*)	40.8	41.2	(*)	\$6.22	\$6.26
Bloomington—Normal .....	(*)	192.76	192.13	(*)	38.2	39.2	(*)	5.05	4.90
Champaign—Urbana—Rantoul .....	(*)	227.96	245.36	(*)	38.7	41.8	(*)	5.90	5.86
Chicago SMSA .....	(*)	260.03	263.37	(*)	41.8	42.1	(*)	6.22	6.26
Davenport—Rock Island—Moline .....	(*)	252.54	263.52	(*)	39.2	39.7	(*)	6.44	6.63
Decatur .....	(*)	256.18	268.42	(*)	39.2	40.1	(*)	6.53	6.69
Peoria .....	(*)	297.89	307.72	(*)	39.9	40.5	(*)	7.46	7.59
Rockford .....	(*)	250.52	245.58	(*)	41.6	41.1	(*)	6.03	5.98
Springfield .....	(*)	290.73	297.80	(*)	43.1	43.5	(*)	6.75	6.84
<b>INDIANA</b> .....	\$247.99	268.38	274.14	41.4	41.1	41.6	\$5.99	6.53	6.59
Gary—Hammond—East Chicago .....	320.68	354.47	(*)	42.0	41.9	(*)	7.64	8.46	(*)
Indianapolis .....	248.40	236.96	(*)	41.4	42.2	(*)	6.00	6.80	(*)
<b>IOWA</b> .....	234.14	254.47	259.05	40.3	40.2	40.1	5.81	6.33	6.46
Cedar Rapids .....	254.59	246.36	247.26	41.6	39.8	39.0	6.12	6.19	6.34
Des Moines .....	244.42	258.34	261.06	40.2	38.5	38.0	6.08	6.71	6.87
Dubuque .....	277.11	316.76	326.79	39.7	40.3	40.9	6.98	7.86	7.99
Sioux City .....	208.54	211.58	214.73	39.2	38.4	38.9	5.32	5.51	5.52
Waterloo—Cedar Falls .....	281.78	322.09	332.88	39.3	41.4	41.3	7.17	7.78	8.06
<b>KANSAS</b> .....	201.22	218.28	217.54	41.3	41.4	41.0	4.87	5.27	5.30
Topeka .....	188.33	235.28	226.01	41.1	42.9	40.4	4.59	5.49	5.59
Wichita .....	220.93	233.10	229.39	41.6	41.6	40.7	5.31	5.61	5.64
<b>KENTUCKY</b> .....	202.49	222.64	224.37	39.9	39.9	40.3	5.10	5.58	5.56
Louisville .....	238.32	254.32	263.16	40.6	39.8	40.8	5.87	6.39	6.45
<b>LOUISIANA</b> .....	221.12	236.71	238.71	41.8	41.3	41.3	5.29	5.78	5.78
Baton Rouge .....	276.25	309.89	312.91	42.5	43.1	43.4	6.50	7.19	7.21
New Orleans .....	218.06	236.87	229.10	41.3	40.7	39.5	5.28	5.82	5.80
Shreveport .....	193.93	212.10	214.88	41.0	42.0	42.3	4.73	5.05	5.08
<b>MAINE</b> .....	163.60	176.76	178.35	40.0	39.9	39.9	4.09	4.43	4.47
Lewiston—Auburn .....	140.66	145.16	145.54	39.4	37.9	38.1	3.57	3.83	3.82
Portland .....	173.75	182.80	174.54	40.5	40.0	39.4	4.29	4.57	4.43
<b>MARYLAND</b> .....	219.60	240.80	242.61	40.0	40.0	40.1	5.49	6.02	6.05
Baltimore .....	234.09	253.71	254.52	40.5	40.4	40.4	5.78	6.28	6.30
<b>MASSACHUSETTS</b> .....	166.87	201.33	206.15	40.1	39.4	40.5	4.71	5.11	5.09
Boston .....	209.27	221.20	224.07	40.4	39.5	40.3	5.18	5.60	5.56
Brockton .....	154.80	151.62	162.86	38.7	36.1	38.5	4.00	4.20	4.23
Fall River .....	138.60	135.35	149.97	36.0	33.1	36.4	3.85	4.09	4.12
Lawrence—Haverhill .....	181.37	199.60	200.88	39.0	40.0	40.5	4.58	4.99	4.96
Lowell .....	165.38	170.24	177.70	39.3	38.0	38.8	4.31	4.48	4.58
New Bedford .....	161.46	158.69	177.80	39.0	35.5	39.6	4.14	4.47	4.49
Springfield—Chicopee—Holyoke .....	190.01	213.93	217.36	40.6	41.3	41.8	4.68	5.18	5.20
Worcester .....	188.02	206.19	212.63	39.5	39.5	40.5	4.76	5.22	5.25
<b>MICHIGAN</b> .....	298.56	321.64	(*)	43.7	43.5	(*)	6.83	7.39	(*)
Ann Arbor .....	341.97	304.32	(*)	46.3	45.0	(*)	7.39	8.10	(*)
Battle Creek .....	289.15	299.94	(*)	41.9	41.4	(*)	6.90	7.25	(*)
Bay City .....	310.64	348.85	(*)	47.6	49.3	(*)	6.53	7.08	(*)
Detroit .....	320.90	340.82	(*)	44.6	43.4	(*)	7.20	7.85	(*)
Flint .....	357.35	385.89	(*)	47.1	46.6	(*)	7.59	8.28	(*)
Grand Rapids .....	250.08	246.76	(*)	40.7	41.1	(*)	5.65	6.00	(*)
Jackson .....	241.99	264.77	(*)	40.5	41.5	(*)	5.98	6.38	(*)
Kalamazoo—Portage .....	257.41	278.64	(*)	41.7	41.9	(*)	6.17	6.65	(*)
Lansing—East Lansing .....	323.82	356.38	(*)	45.0	45.7	(*)	7.20	7.84	(*)
Muskegon—Norton Shores—Muskegon Heights .....	246.79	258.34	(*)	41.2	41.6	(*)	5.99	6.21	(*)
Saginaw .....	348.50	391.56	(*)	44.6	46.3	(*)	7.81	8.46	(*)
<b>MINNESOTA</b> .....	217.56	237.20	238.39	39.7	40.0	40.2	5.48	5.93	5.93
Duluth—Superior .....	194.54	216.00	205.87	38.6	40.0	39.9	5.04	5.40	5.26
Minneapolis—St. Paul .....	222.76	253.08	258.08	40.2	40.3	40.9	5.79	6.28	6.31
<b>MISSISSIPPI</b> .....	152.36	164.39	165.23	40.2	39.9	40.3	3.79	4.12	4.10
Jackson .....	158.78	183.27	184.58	40.3	41.0	41.2	3.94	4.47	4.48

See footnotes at end of table.

**ESTABLISHMENT DATA**  
**STATE AND AREA HOURS AND EARNINGS**

**C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
<b>MISSOURI</b> <sup>1</sup>	\$206.23	\$226.85	\$233.08	40.2	40.8	40.9	\$5.13	\$5.56	\$5.64
Kansas City <sup>1</sup>	240.95	267.32	265.85	41.4	41.9	41.8	5.82	6.38	6.36
St. Joseph <sup>1</sup>	197.83	205.37	207.43	41.3	39.8	40.2	4.79	5.16	5.16
St. Louis <sup>1</sup>	238.43	262.50	267.26	40.1	41.8	41.5	5.95	6.28	6.44
Springfield <sup>1</sup>	177.06	180.50	194.89	39.7	38.0	40.1	4.46	4.75	4.86
<b>MONTANA</b>	241.16	262.06	259.37	39.6	41.4	42.8	6.09	6.33	6.06
<b>NEBRASKA</b>	201.53	215.91	222.94	41.4	41.0	41.5	4.87	5.27	5.37
Lincoln	150.48	209.13	212.94	38.4	38.9	39.1	4.70	5.38	5.45
Omaha	225.12	231.75	237.60	42.7	40.7	41.1	5.27	5.69	5.78
<b>NEVADA</b>	214.06	217.18	218.37	38.5	36.5	36.7	5.56	5.95	5.95
Las Vegas	274.07	283.20	(*)	41.4	40.0	(*)	6.62	7.08	(*)
<b>NEW HAMPSHIRE</b>	166.76	180.50	182.25	39.8	40.2	40.5	4.19	4.49	4.50
Manchester	152.10	161.58	164.00	39.1	39.7	40.0	3.89	4.07	4.10
Nashua	186.93	206.59	207.17	40.2	41.4	41.6	4.65	4.99	4.98
<b>NEW JERSEY</b>	215.18	237.06	241.44	40.6	41.3	41.7	5.30	5.74	5.79
Atlantic City	168.34	176.01	181.88	38.0	36.9	37.5	4.43	4.77	4.85
Camden <sup>2</sup>	197.68	224.80	226.97	39.3	40.0	40.1	5.03	5.62	5.66
Hackensack <sup>3</sup>	200.57	223.24	227.70	41.1	42.2	42.8	4.88	5.29	5.32
Jersey City <sup>3</sup>	204.82	224.40	228.58	38.5	40.0	40.6	5.32	5.61	5.63
New Brunswick—Perth Amboy—Sayreville <sup>3</sup>	237.84	254.75	256.62	41.8	41.9	42.0	5.69	6.08	6.11
Newark <sup>3</sup>	219.51	245.86	248.30	40.5	42.1	42.3	5.42	5.84	5.87
Paterson—Clifton—Passaic <sup>3</sup>	209.07	222.77	226.46	41.4	40.8	41.1	5.05	5.26	5.51
Trenton	222.26	243.95	246.60	41.7	41.0	41.1	5.33	5.95	6.00
<b>NEW MEXICO</b>	159.57	162.63	165.24	39.4	37.3	37.3	4.05	4.36	4.43
Albuquerque	159.19	164.69	170.62	39.5	37.6	38.0	4.03	4.38	4.49
<b>NEW YORK</b>	206.59	222.16	(*)	39.5	39.6	(*)	5.23	5.61	(*)
Albany—Schenectady—Troy	224.41	238.68	(*)	41.1	40.8	(*)	5.46	5.85	(*)
Binghamton	192.64	198.00	(*)	40.9	40.0	(*)	4.71	4.95	(*)
Buffalo	272.95	301.44	(*)	41.8	42.1	(*)	6.53	7.16	(*)
Elmira	200.15	224.00	(*)	39.4	40.0	(*)	5.08	5.60	(*)
Monroe County <sup>4</sup>	262.91	286.90	(*)	41.6	41.7	(*)	6.32	6.88	(*)
Nassau—Suffolk <sup>5</sup>	193.95	201.49	(*)	39.5	39.2	(*)	4.91	5.14	(*)
New York—Northeastern New Jersey	198.63	214.78	(*)	39.1	39.7	(*)	5.08	5.41	(*)
New York and Nassau—Suffolk <sup>3</sup>	186.20	195.70	(*)	38.0	38.0	(*)	4.90	5.15	(*)
New York SMSA <sup>5</sup>	184.24	194.67	(*)	37.6	37.8	(*)	4.90	5.15	(*)
New York City <sup>6</sup>	182.51	191.63	(*)	37.4	37.5	(*)	4.88	5.11	(*)
Poughkeepsie	215.18	227.56	(*)	40.6	41.3	(*)	5.30	5.51	(*)
Rochester	250.28	272.66	(*)	41.3	41.5	(*)	6.06	6.57	(*)
Rockland County <sup>6</sup>	207.90	217.05	(*)	42.0	41.5	(*)	4.95	5.23	(*)
Syracuse	224.41	251.08	(*)	41.1	41.5	(*)	5.46	6.05	(*)
Utica—Rome	196.49	211.58	(*)	40.1	40.3	(*)	4.90	5.25	(*)
Westchester County <sup>6</sup>	202.07	225.36	(*)	39.7	40.1	(*)	5.09	5.62	(*)
<b>NORTH CAROLINA</b>	148.43	159.60	162.81	39.9	39.8	40.1	3.72	4.01	4.06
Asheville	147.63	156.41	159.20	39.9	39.9	40.0	3.70	3.92	3.98
Charlotte—Gastonia	152.11	166.85	167.67	41.0	41.3	41.4	3.71	4.04	4.05
Greensboro—Winston-Salem—High Point	161.99	174.44	178.53	39.8	40.1	40.3	4.07	4.35	4.43
Raleigh—Durham	164.22	176.79	182.99	39.1	39.2	39.1	4.20	4.51	4.68
<b>NORTH DAKOTA</b>	191.20	202.79	207.37	40.0	38.7	39.2	4.78	5.24	5.29
Fargo—Moorhead	204.83	211.85	225.55	40.4	38.8	39.5	5.07	5.46	5.71
<b>OHIO</b>	253.54	281.05	286.52	41.7	42.2	42.7	6.08	6.66	6.71
Akron	237.89	279.60	290.49	41.3	42.3	43.1	5.76	6.61	6.74
Canton	243.72	274.32	278.92	39.5	40.7	41.2	6.17	6.74	6.77
Cincinnati	232.82	259.79	264.18	41.5	41.7	42.0	5.61	6.23	6.29
Cleveland	263.33	291.17	300.52	42.2	43.2	44.0	6.24	6.74	6.83
Columbus	224.56	244.42	247.05	40.1	40.4	40.7	5.60	6.05	6.07
Dayton	273.62	305.86	311.61	43.5	44.2	44.9	6.29	6.92	6.94
Toledo	263.54	295.32	298.42	41.7	42.8	43.0	6.32	6.90	6.94
Youngstown—Warren	288.16	317.18	318.42	40.7	41.3	41.3	7.08	7.68	7.71

See footnotes at end of table.

**ESTABLISHMENT DATA**  
**STATE AND AREA HOURS AND EARNINGS**

**C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
<b>OKLAHOMA</b>	\$190.15	\$211.29	\$213.15	40.2	40.4	40.6	\$4.73	\$5.23	\$5.25
Oklahoma City	189.01	204.69	209.38	40.3	39.9	40.5	4.69	5.13	5.17
Tulsa	207.76	231.09	228.05	39.2	40.4	39.8	5.30	5.72	5.73
<b>OREGON</b>	244.33	253.37	260.55	39.6	39.1	39.9	6.17	6.48	6.53
Eugene—Springfield	274.07	272.63	280.03	42.1	40.6	41.0	6.51	6.72	6.83
Jackson County	262.06	253.55	293.46	42.2	38.3	43.8	6.21	6.62	6.70
Portland	230.83	247.68	243.72	38.6	38.7	38.2	5.98	6.40	6.38
<b>PENNSYLVANIA</b>	209.61	228.10	(*)	39.4	39.6	(*)	5.32	5.76	(*)
Allentown—Bethlehem—Easton	202.31	222.68	(*)	38.1	38.0	(*)	5.31	5.86	(*)
Altoona	175.50	189.81	(*)	39.0	38.5	(*)	4.50	4.93	(*)
Delaware Valley <sup>7</sup>	220.41	238.20	(*)	39.5	39.7	(*)	5.58	6.00	(*)
Erie	210.12	234.36	(*)	40.1	40.9	(*)	5.24	5.73	(*)
Harrisburg	167.40	205.09	(*)	39.3	39.9	(*)	4.77	5.14	(*)
Johnstown	227.67	254.67	(*)	38.2	39.0	(*)	5.96	6.53	(*)
Lancaster	187.86	206.63	(*)	39.8	40.2	(*)	4.72	5.14	(*)
Northeast Pennsylvania	152.34	167.08	(*)	36.1	36.4	(*)	4.22	4.59	(*)
Philadelphia SMSA	217.56	(*)	(*)	39.7	(*)	(*)	5.48	(*)	(*)
Pittsburgh	256.31	286.64	(*)	40.3	40.6	(*)	6.36	7.06	(*)
Reading	192.94	210.00	(*)	39.7	39.4	(*)	4.86	5.33	(*)
Scranton <sup>8</sup>	157.08	177.84	(*)	37.4	38.0	(*)	4.20	4.68	(*)
Wilkes-Barre—Hazleton <sup>9</sup>	148.19	158.40	(*)	35.2	35.2	(*)	4.21	4.50	(*)
Williamsport	179.26	189.42	(*)	38.8	38.5	(*)	4.62	4.92	(*)
York	193.39	209.10	(*)	40.8	41.0	(*)	4.74	5.10	(*)
<b>RHODE ISLAND</b>	165.19	168.78	172.09	39.9	38.8	39.2	4.14	4.35	4.39
Providence—Warwick—Pawtucket	166.43	170.88	172.53	40.2	39.1	39.3	4.14	4.37	4.39
<b>SOUTH CAROLINA</b>	155.66	170.13	171.79	40.8	40.7	41.0	3.82	4.18	4.19
Charleston—North Charleston	173.72	191.47	193.17	40.4	41.0	41.1	4.30	4.67	4.70
Columbia	153.26	173.17	176.11	39.5	39.9	40.3	3.88	4.34	4.37
Greenville—Spartanburg	155.80	168.90	172.21	41.0	40.7	41.1	3.80	4.15	4.19
<b>SOUTH DAKOTA</b> <sup>10</sup>	183.31	193.03	194.65	41.1	39.8	40.3	4.46	4.85	4.83
Sioux Falls <sup>10</sup>	239.38	241.44	241.34	42.9	41.7	41.9	5.58	5.79	5.76
<b>TENNESSEE</b>	170.95	186.81	190.34	40.8	40.7	41.2	4.19	4.59	4.62
Chattanooga	183.34	195.43	196.32	41.2	40.8	40.9	4.45	4.79	4.80
Knoxville	202.95	218.41	220.17	41.0	40.9	41.0	4.95	5.34	5.37
Memphis	194.38	193.92	203.76	40.0	40.4	41.5	4.80	4.80	4.91
Nashville—Davidson	182.56	193.40	208.38	40.3	39.6	40.7	4.53	5.01	5.12
<b>TEXAS</b>	206.83	216.68	222.35	41.7	40.5	41.1	4.96	5.35	5.41
Amarillo	191.35	223.69	227.16	40.8	43.1	43.6	4.69	5.19	5.21
Austin	173.42	182.13	177.53	40.9	41.3	41.0	4.24	4.41	4.33
Beaumont—Port Arthur—Orange	284.56	269.18	304.36	41.3	35.7	40.1	6.89	7.54	7.59
Corpus Christi	233.28	241.26	255.20	43.2	41.1	41.7	5.40	5.87	6.12
Dallas—Fort Worth	195.10	200.48	211.26	41.6	40.5	42.0	4.69	4.95	5.03
El Paso	144.59	146.31	148.22	40.5	38.3	38.8	3.57	3.82	3.82
Galveston—Texas City	328.94	340.23	345.40	43.8	41.9	42.8	7.51	8.12	8.07
Houston	251.08	279.72	282.75	42.7	43.1	43.3	5.88	6.49	6.53
Lubbock	151.84	160.33	161.96	41.6	40.9	40.9	3.65	3.92	3.96
San Antonio	155.36	165.24	164.81	41.1	40.6	40.1	3.78	4.07	4.11
Waco	168.38	180.78	179.49	39.9	40.9	40.7	4.22	4.42	4.41
Wichita Falls	175.67	184.84	186.42	39.3	37.8	38.2	4.47	4.89	4.88
<b>UTAH</b>	193.26	204.14	205.44	39.2	39.9	40.0	4.93	5.12	5.14
Salt Lake City—Ogden	183.52	193.52	194.39	38.8	39.6	39.8	4.73	4.89	4.88
<b>VERMONT</b>	177.94	191.12	193.81	41.0	41.1	41.5	4.34	4.65	4.67
Burlington	207.83	219.82	220.76	42.5	42.0	42.7	4.89	5.21	5.17
Springfield	184.27	216.94	219.76	39.8	41.4	41.0	4.63	5.24	5.36
<b>VIRGINIA</b>	170.40	186.53	190.07	40.0	40.2	40.7	4.26	4.64	4.67
Bristol	150.51	159.71	166.06	38.2	38.3	38.8	3.94	4.17	4.28
Lynchburg	170.74	177.64	186.65	39.8	39.3	40.4	4.29	4.52	4.62
Norfolk—Virginia Beach—Portsmouth	188.55	217.51	212.43	41.9	42.4	41.9	4.50	5.13	5.07
Northern Virginia <sup>11</sup>	193.77	211.60	219.35	38.6	40.0	41.0	5.02	5.29	5.35
Petersburg—Colonial Heights—Hopewell	198.66	220.35	220.38	38.8	39.0	38.8	5.12	5.65	5.68
Richmond	205.42	214.06	222.40	40.2	38.5	40.0	5.11	5.56	5.56

See footnotes at end of table.

**ESTABLISHMENT DATA**  
**STATE AND AREA HOURS AND EARNINGS**

**C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas—Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P	JUNE 1976	MAY 1977	JUNE 1977P
<b>VIRGINIA—Continued</b>									
Roanoke .....	\$150.40	\$163.59	\$164.40	40.0	39.9	40.0	\$3.76	\$4.10	\$4.11
<b>WASHINGTON<sup>1</sup></b>									
Seattle—Everett <sup>1</sup> .....	247.35	261.07	(*)	39.2	39.2	(*)	6.31	6.66	(*)
Spokane <sup>1</sup> .....	254.52	269.60	(*)	39.4	39.3	(*)	6.46	6.86	(*)
Tacoma <sup>1</sup> .....	217.06	222.91	(*)	38.9	38.3	(*)	5.58	5.82	(*)
	246.52	266.63	(*)	38.7	39.5	(*)	6.37	6.75	(*)
<b>WEST VIRGINIA</b>									
Charleston .....	210.92	237.58	242.00	38.7	40.2	40.2	5.45	5.91	6.02
Huntington—Ashland .....	244.96	270.34	276.60	41.1	41.4	42.1	5.96	6.53	6.57
Parkersburg—Marietta .....	239.38	259.77	261.46	40.3	39.3	39.2	5.94	6.61	6.67
Wheeling .....	235.91	250.29	252.10	41.1	40.5	39.7	5.74	6.18	6.35
	217.80	244.73	249.00	39.6	41.2	41.5	5.50	5.94	6.00
<b>WISCONSIN</b>									
Appleton—Oshkosh .....	227.45	247.60	248.29	40.3	40.6	40.7	5.65	6.10	6.10
Green Bay .....	223.21	240.29	243.34	41.2	42.0	42.0	5.42	5.73	5.79
Kenosha .....	231.99	258.46	259.49	41.7	42.4	42.7	5.57	6.10	6.08
La Crosse .....	250.45	279.46	296.28	38.5	39.5	41.3	6.66	7.07	7.17
Madison .....	189.90	214.44	200.67	40.5	40.7	39.2	4.69	5.27	5.12
Milwaukee .....	247.03	268.03	263.74	39.9	40.1	40.4	6.20	6.69	6.53
Racine .....	247.87	268.62	273.03	39.9	40.4	40.7	6.21	6.65	6.71
	237.19	261.05	267.57	39.7	40.1	40.8	5.98	6.51	6.55
<b>WYOMING</b>									
Casper .....	222.46	229.52	225.89	40.3	39.1	39.7	5.52	5.87	5.69
Cheyenne .....	301.28	283.79	278.56	43.6	40.6	41.7	6.91	6.99	6.68
	240.71	229.22	243.28	39.2	41.3	41.8	6.13	5.55	5.82

<sup>1</sup> Based on 1967 Standard Industrial Classification.

<sup>2</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Burlington, Camden, and Gloucester Counties, New Jersey.

<sup>3</sup> Subarea of New York—Northeastern New Jersey.

<sup>4</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>5</sup> Area included in New York and Nassau—Suffolk combined SMSA's.

<sup>6</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>7</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

<sup>8</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

<sup>9</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

<sup>10</sup> Based on 1972 Standard Industrial Classification and adjusted to 1978 benchmark; not strictly comparable with previously published data.

<sup>11</sup> Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p=preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-1. Labor turnover rates in manufacturing 1965 to date**

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>													
1965	4.3	3.8	3.5	4.0	3.8	4.1	5.6	4.5	5.4	5.5	4.5	3.9	3.1
1966	5.0	4.6	4.2	4.9	4.6	5.1	6.7	5.1	6.4	6.1	5.1	3.9	2.9
1967	4.4	4.3	3.6	3.9	3.9	4.6	5.9	4.7	5.5	5.3	4.7	3.7	2.8
1968	4.6	4.2	3.8	4.0	4.3	4.7	5.9	5.0	5.8	5.7	5.1	3.9	3.1
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	4.9	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.4	4.1	3.7	4.0	4.0	4.9	5.3	4.6	6.0	5.3	4.8	3.6	2.7
1973	4.8	4.6	4.0	4.4	4.5	5.3	5.9	5.1	6.2	5.7	5.2	3.8	2.6
1974	4.2	4.2	3.6	4.0	4.4	5.1	5.4	4.8	5.4	4.9	3.8	2.4	1.8
1975	3.7	3.0	2.7	3.2	3.7	3.9	4.5	4.5	5.1	4.6	3.7	2.8	2.2
1976	3.9	3.8	3.5	4.2	3.9	4.4	4.8	4.2	5.1	4.4	3.5	3.0	2.2
1977	-	3.7	3.7	4.0	3.8	4.6	4.9P						
<b>New hires</b>													
1965	3.1	2.4	2.4	2.8	2.6	3.0	4.3	3.2	3.9	4.0	3.5	2.9	2.2
1966	3.8	3.2	3.1	3.7	3.6	4.1	5.6	3.9	4.8	4.7	4.2	3.1	2.1
1967	3.3	3.0	2.7	2.8	2.8	3.3	4.6	3.3	4.0	4.1	3.7	2.8	2.0
1968	3.5	3.0	2.7	2.9	3.2	3.6	4.7	3.7	4.3	4.6	4.0	2.9	2.2
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.4	2.7	2.9	3.6	4.1	3.4	4.4	4.3	3.8	2.9	2.0
1973	3.9	3.5	3.1	3.5	3.6	4.4	5.0	4.1	5.0	4.7	4.3	3.0	2.0
1974	3.2	3.2	2.7	3.0	3.3	3.9	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.0	2.4	1.7	1.3
1976	2.6	2.1	2.1	2.6	2.5	3.0	3.6	2.8	3.5	3.2	2.5	1.9	1.3
1977	-	2.2	2.1	2.6	2.7	3.4	3.7P						
<b>Total separations</b>													
1965	4.1	3.7	3.1	3.4	3.7	3.6	3.6	4.3	5.1	5.6	4.5	3.9	4.1
1966	4.6	4.0	3.6	4.1	4.3	4.3	4.4	5.3	5.8	6.6	4.8	4.3	4.2
1967	4.6	4.5	4.0	4.6	4.3	4.2	4.3	4.8	5.3	6.2	4.7	4.0	3.9
1968	4.6	4.4	3.9	4.1	4.1	4.3	4.1	5.0	6.0	6.3	5.0	4.1	3.8
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.2	4.0	3.5	3.8	3.8	3.9	4.2	4.8	5.4	5.3	4.3	3.7	3.7
1973	4.6	4.3	3.7	4.2	4.1	4.4	4.5	5.1	6.5	5.7	4.9	4.2	3.9
1974	4.8	4.9	4.0	4.4	4.2	4.4	4.2	4.9	6.1	5.4	5.0	5.0	5.2
1975	4.2	6.2	4.5	4.2	4.0	3.9	3.6	4.4	4.6	4.3	4.0	3.5	3.4
1976	3.8	3.7	3.1	3.5	3.5	3.4	3.5	4.3	4.9	4.6	4.1	3.4	3.5
1977	-	3.9	3.4	3.4	3.4	3.5	3.5P						
<b>Quits</b>													
1965	1.9	1.4	1.3	1.5	1.7	1.7	1.7	1.8	2.6	3.5	2.2	1.7	1.4
1966	2.6	1.9	1.8	2.3	2.5	2.5	2.5	2.5	3.6	4.5	2.8	2.1	1.7
1967	2.3	2.1	1.9	2.1	2.2	2.2	2.3	2.1	3.2	4.0	2.5	1.9	1.5
1968	2.5	2.0	1.9	2.1	2.2	2.4	2.3	2.4	3.8	4.2	2.8	2.1	1.6
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.2	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	1.9	1.6
1973	2.7	2.2	2.1	2.5	2.5	2.7	2.8	2.8	4.5	3.9	3.0	2.2	1.6
1974	2.3	2.2	1.9	2.3	2.4	2.6	2.5	2.5	4.0	3.2	2.2	1.4	.9
1975	1.4	1.1	.9	1.0	1.1	1.3	1.3	1.5	2.4	2.0	1.6	1.2	.9
1976	1.7	1.3	1.2	1.5	1.6	1.7	1.8	1.8	2.8	2.4	1.7	1.2	1.0
1977	-	1.4	1.3	1.6	1.7	1.9	1.9P						
<b>Layoffs</b>													
1965	1.4	1.6	1.2	1.2	1.3	1.1	1.1	1.8	1.6	1.3	1.4	1.5	1.9
1966	1.2	1.3	1.0	1.0	1.0	.9	1.0	2.0	1.1	1.0	1.1	1.3	1.7
1967	1.4	1.5	1.3	1.5	1.3	1.1	1.1	1.9	1.2	1.2	1.3	1.3	1.6
1968	1.2	1.5	1.2	1.1	1.0	1.0	.9	1.8	1.3	1.1	1.2	1.2	1.4
1969	1.2	1.2	1.0	1.0	.9	.9	.9	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.4	1.1	1.1	1.0	.8	1.1	1.7	.9	.9	.9	1.0	1.3
1973	.9	1.0	.7	.8	.7	.6	.6	1.4	.8	.7	.8	1.1	1.5
1974	1.5	1.7	1.2	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.1	2.9	2.5	2.1	1.8	1.5	2.0	1.3	1.4	1.6	1.7	1.9
1976	1.3	1.6	1.1	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	-	1.7	1.4	1.0	.9	.8	.8P						

p=preliminary.

# ESTABLISHMENT DATA LABOR TURNOVER

## D-2. Labor turnover rates, by industry

[Per 100 employees]

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>
-	<b>MANUFACTURING</b>	4.6	4.9	3.4	3.7	3.5	3.5	1.9	1.9	0.8	0.8
19,24,25,32-39	<b>DURABLE GOODS</b>	4.3	4.5	3.2	3.4	3.0	3.1	1.5	1.6	.6	.6
20-23,26-31	<b>NONDURABLE GOODS</b>	5.1	5.4	3.8	4.2	4.2	4.1	2.4	2.3	1.0	1.0
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES</b>	2.1	2.7	1.3	1.7	1.4	1.4	.5	.6	.3	.3
192	Ammunition, except for small arms	1.8	-	.9	-	1.3	-	.4	-	.3	-
24	<b>LUMBER AND WOOD PRODUCTS</b>	7.3	7.8	5.8	6.5	5.2	4.9	3.6	3.3	.6	.5
242	Sawmills and planing mills	5.9	-	4.7	-	4.8	-	3.1	-	.6	-
2421	Sawmills and planing mills, general	5.5	-	4.3	-	4.5	-	2.9	-	.6	-
243	Millwork, plywood and related products	8.1	-	7.1	-	5.3	-	3.8	-	.4	-
2431	Millwork	6.9	-	6.2	-	5.1	-	3.4	-	.5	-
2432	Veneer and plywood	5.5	-	4.2	-	3.9	-	2.6	-	.3	-
244	Wooden containers	9.1	-	7.9	-	8.1	-	5.7	-	1.5	-
2441,2	Wooden boxes, shooks, and crates	9.4	-	8.1	-	6.8	-	5.7	-	.2	-
249	Miscellaneous wood products	7.0	-	5.9	-	5.9	-	4.1	-	.8	-
25	<b>FURNITURE AND FIXTURES</b>	6.3	5.7	5.5	5.0	5.7	4.8	3.5	3.0	1.0	.8
251	Household furniture	6.6	-	5.9	-	6.2	-	4.0	-	.9	-
2511	Wood household furniture	7.5	-	6.7	-	6.3	-	4.4	-	.6	-
2512	Upholstered household furniture	4.9	-	4.4	-	4.8	-	3.4	-	.7	-
2515	Mattresses and bedsprings	6.0	-	5.0	-	5.2	-	3.4	-	.6	-
252	Office furniture	5.7	-	4.7	-	4.9	-	1.7	-	2.1	-
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	5.1	5.2	3.7	4.1	3.2	3.2	1.7	1.8	.6	.4
321	Flat glass	3.7	-	2.0	-	1.2	-	.4	-	.1	-
322	Glass and glassware, pressed or blown	3.2	-	2.0	-	2.7	-	1.1	-	.7	-
3221	Glass containers	3.6	-	2.4	-	2.5	-	1.2	-	.5	-
3229	Pressed and blown glass, nec	2.6	-	1.5	-	2.9	-	.9	-	.9	-
324	Cement, hydraulic	4.2	-	2.5	-	1.5	-	.4	-	.2	-
325	Structural clay products	7.4	-	6.3	-	4.7	-	3.0	-	.7	-
3251	Brick and structural clay tile	9.3	-	8.4	-	5.7	-	4.7	-	.1	-
326	Pottery and related products	4.5	-	3.4	-	4.1	-	2.0	-	.6	-
3291	Abrasive products	2.6	-	1.8	-	2.0	-	1.0	-	.4	-
33	<b>PRIMARY METAL INDUSTRIES</b>	3.7	3.4	2.4	2.4	2.0	2.1	.8	.8	.5	.4
331	Blast furnace and basic steel products	3.6	-	1.8	-	1.4	-	.3	-	.4	-
3312	Blast furnaces and steel mills	3.6	-	1.8	-	1.3	-	.2	-	.4	-
332	Iron and steel foundries	4.4	-	3.4	-	2.8	-	1.4	-	.5	-
3321	Gray iron foundries	4.2	-	3.5	-	2.9	-	1.5	-	.5	-
3322	Malleable iron foundries	5.1	-	3.6	-	2.0	-	1.2	-	.2	-
3323	Steel foundries	4.6	-	3.1	-	2.9	-	1.3	-	.7	-
333,4	Nonferrous metals	3.3	-	2.6	-	1.9	-	.9	-	.4	-
335	Nonferrous rolling and drawing	2.7	-	2.1	-	2.4	-	.7	-	.9	-
3351	Copper rolling and drawing	3.7	-	3.3	-	2.3	-	.9	-	.3	-
3352	Aluminum rolling and drawing	2.7	-	1.9	-	3.4	-	.5	-	2.2	-
3357	Nonferrous wire drawing, and insulating	2.3	-	1.6	-	1.6	-	.6	-	.3	-
336	Nonferrous foundries	5.4	-	4.4	-	4.1	-	2.3	-	1.0	-
3361	Aluminum castings	5.5	-	5.0	-	4.4	-	2.4	-	1.2	-
3362,9	Other nonferrous castings	5.3	-	3.7	-	3.7	-	2.1	-	.7	-
339	Miscellaneous primary metal products	3.0	-	1.9	-	1.8	-	.9	-	.3	-
3391	Iron and steel forgings	2.8	-	1.5	-	1.9	-	.8	-	.3	-
34	<b>FABRICATED METAL PRODUCTS</b>	4.9	5.0	3.7	3.9	3.5	3.5	1.8	1.8	.8	.8
341	Metal cans	5.7	-	2.1	-	3.3	-	.6	-	1.5	-
342	Cutlery, hand tools, and hardware	4.3	-	3.4	-	2.8	-	1.4	-	.6	-
3421,3,5	Cutlery and hand tools, incl. saws	3.5	-	2.8	-	2.9	-	1.6	-	.7	-
3429	Hardware, nec	4.9	-	3.8	-	2.7	-	1.3	-	.6	-
343	Plumbing and heating, except electric	5.3	-	4.6	-	3.9	-	1.7	-	.9	-
3431,2	Sanitary ware and plumbers' brass goods	5.9	-	5.4	-	3.6	-	1.7	-	.7	-
3433	Heating equipment, except electric	4.7	-	3.8	-	4.1	-	1.8	-	1.1	-
344	Fabricated structural metal products	5.6	-	4.3	-	3.8	-	2.0	-	.9	-
3441	Fabricated structural steel	5.3	-	3.8	-	3.7	-	1.8	-	.9	-
3443	Fabricated plate work (boiler shops)	3.2	-	2.4	-	2.5	-	1.2	-	.8	-
3446,9	Architectural and misc. metal work	7.5	-	5.7	-	3.6	-	2.1	-	.6	-
345	Screw machine products, bolts, etc.	3.6	-	3.0	-	3.0	-	1.6	-	.6	-
3452	Bolts, nuts, rivets, and washers	3.3	-	2.6	-	2.4	-	1.3	-	.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2. Labor turnover rates, by industry—Continued**

[Per 100 employees]

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>
<b>DURABLE GOODS — Continued</b>											
<b>FABRICATED METAL PRODUCTS — Continued</b>											
346	Metal stampings . . . . .	4.1	-	2.7	-	2.9	-	1.4	-	0.7	-
348	Miscellaneous fabricated wire products . . . . .	5.5	-	4.5	-	4.2	-	2.6	-	.6	-
349	Miscellaneous fabricated metal products . . . . .	4.2	-	3.4	-	2.8	-	1.5	-	.5	-
3494,8	Valves, pipe, and pipe fittings . . . . .	3.7	-	3.0	-	2.5	-	1.3	-	.5	-
35	<b>MACHINERY, EXCEPT ELECTRICAL . . . . .</b>	3.1	3.6	2.3	2.8	2.3	2.5	1.1	1.3	.5	0.4
351	Engines and turbines . . . . .	2.4	-	1.2	-	2.3	-	.4	-	.9	-
3511	Steam engines and turbines . . . . .	.9	-	.4	-	1.4	-	.2	-	.2	-
3519	Internal combustion engines, nec . . . . .	3.2	-	1.7	-	2.8	-	.5	-	1.3	-
352	Farm machinery . . . . .	3.5	-	2.2	-	3.0	-	1.3	-	.8	-
353	Construction and related machinery . . . . .	3.2	-	2.3	-	2.2	-	1.2	-	.4	-
3531,2	Construction and mining machinery . . . . .	2.7	-	1.5	-	1.8	-	.9	-	.4	-
3533	Oil field machinery . . . . .	4.4	-	3.8	-	2.8	-	1.8	-	.2	-
3535,6	Conveyors, hoists, cranes, monorails . . . . .	2.6	-	1.9	-	2.1	-	1.0	-	.6	-
354	Metal working machinery . . . . .	3.1	-	2.4	-	2.3	-	1.1	-	.4	-
3541	Machine tools, metal cutting types . . . . .	2.2	-	1.7	-	1.9	-	.7	-	.5	-
3545	Machine tool accessories . . . . .	2.6	-	2.2	-	1.9	-	1.0	-	.1	-
3542,8	Miscellaneous metal working machinery . . . . .	3.0	-	1.9	-	2.0	-	1.0	-	.4	-
355	Special industry machinery . . . . .	2.7	-	2.1	-	2.1	-	1.0	-	.4	-
3551	Food products machinery . . . . .	2.6	-	2.0	-	2.1	-	.9	-	.6	-
3552	Textile machinery . . . . .	3.4	-	2.6	-	3.0	-	1.5	-	.7	-
356	General industrial machinery . . . . .	2.7	-	2.0	-	2.0	-	1.0	-	.4	-
3561	Pumps and compressors . . . . .	2.8	-	2.2	-	1.8	-	1.0	-	.3	-
3562	Ball and roller bearings . . . . .	2.7	-	1.6	-	1.5	-	.6	-	.2	-
3566	Power transmission equipment . . . . .	2.6	-	1.9	-	1.6	-	.9	-	.2	-
357	Office and computing machines . . . . .	3.0	-	2.6	-	1.8	-	1.0	-	.1	-
3573	Electronic computing equipment . . . . .	3.2	-	2.8	-	1.7	-	1.0	-	.1	-
358	Service industry machines . . . . .	3.8	-	2.9	-	3.6	-	1.3	-	1.2	-
3585	Refrigeration machinery . . . . .	3.9	-	3.0	-	3.4	-	1.2	-	.8	-
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES . . . . .</b>	3.6	4.0	2.6	3.0	2.6	2.9	1.2	1.4	.6	.7
361	Electric test and distributing equipment . . . . .	3.5	-	2.5	-	2.4	-	1.3	-	.3	-
3611	Electric measuring instruments . . . . .	3.0	-	2.2	-	1.6	-	1.1	-	.1	-
3612	Transformers . . . . .	4.0	-	2.6	-	3.3	-	1.5	-	.5	-
3613	Switchgear and switchboard apparatus . . . . .	3.7	-	2.8	-	2.6	-	1.3	-	.4	-
362	Electrical industrial apparatus . . . . .	3.3	-	2.5	-	2.1	-	1.1	-	.3	-
3621	Motors and generators . . . . .	3.1	-	2.2	-	2.1	-	1.1	-	.3	-
3622	Industrial controls . . . . .	3.6	-	2.9	-	2.1	-	1.0	-	.4	-
363	Household appliances . . . . .	5.9	-	4.0	-	4.2	-	1.8	-	1.1	-
3632	Household refrigerators and freezers . . . . .	7.9	-	3.8	-	4.1	-	1.2	-	1.0	-
3633	Household laundry equipment . . . . .	3.5	-	3.0	-	1.9	-	.8	-	.4	-
3634	Electric housewares and fans . . . . .	6.5	-	4.7	-	5.5	-	3.1	-	1.3	-
364	Electric lighting and wiring equipment . . . . .	3.6	-	2.8	-	2.8	-	1.3	-	.6	-
3641	Electric lamps . . . . .	2.1	-	1.1	-	2.0	-	.6	-	.5	-
3642	Lighting fixtures . . . . .	4.0	-	3.1	-	3.7	-	1.6	-	1.2	-
3643,4	Wiring devices . . . . .	4.0	-	3.2	-	2.4	-	1.3	-	.2	-
365	Radio and TV receiving equipment . . . . .	3.9	-	2.0	-	3.2	-	1.0	-	1.0	-
366	Communication equipment . . . . .	2.3	-	1.6	-	1.4	-	.7	-	.3	-
3661	Telephone and telegraph apparatus . . . . .	2.3	-	1.6	-	.9	-	.4	-	(1)	-
3662	Radio and TV communication equipment . . . . .	2.4	-	1.6	-	1.7	-	.8	-	.4	-
367	Electronic components and accessories . . . . .	4.3	-	3.4	-	3.2	-	1.7	-	.6	-
3671-3	Electron tubes . . . . .	4.3	-	2.0	-	2.7	-	.6	-	.9	-
3674,9	Other electronic components . . . . .	4.3	-	3.6	-	3.3	-	1.9	-	.6	-
369	Miscellaneous electrical equipment and supplies . . . . .	3.0	-	2.0	-	2.6	-	1.1	-	.7	-
3694	Engine electrical equipment . . . . .	2.8	-	1.6	-	2.1	-	.8	-	.5	-
37	<b>TRANSPORTATION EQUIPMENT . . . . .</b>	4.6	-	3.2	-	3.2	-	1.4	-	.8	-
371	Motor vehicles and equipment . . . . .	4.2	-	2.8	-	2.3	-	.9	-	.4	-
3711	Motor vehicles . . . . .	4.4	-	3.2	-	2.2	-	1.0	-	.1	-
3712	Passenger car bodies . . . . .	1.9	-	1.5	-	1.1	-	.3	-	(1)	-
3713	Truck and bus bodies . . . . .	5.1	-	3.7	-	3.4	-	2.1	-	.2	-
3714	Motor vehicle parts and accessories . . . . .	3.9	-	2.5	-	2.3	-	.7	-	.7	-
372	Aircraft and parts . . . . .	2.4	-	1.6	-	1.5	-	.6	-	.3	-
3721	Aircraft . . . . .	2.2	-	1.4	-	1.4	-	.6	-	.2	-
3722	Aircraft engines and engine parts . . . . .	1.8	-	1.2	-	1.1	-	.4	-	.2	-
3723,9	Other aircraft parts and equipment . . . . .	3.6	-	2.5	-	2.2	-	1.0	-	.5	-
373	Ship and boat building and repairing . . . . .	6.5	-	4.7	-	6.1	-	2.5	-	2.4	-
3731	Ship building and repairing . . . . .	7.0	-	4.8	-	5.8	-	2.3	-	2.4	-
374	Railroad equipment . . . . .	4.4	-	1.5	-	3.9	-	.5	-	2.3	-
375,9	Other transportation equipment . . . . .	0.6	-	8.8	-	8.5	-	5.0	-	1.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2. Labor turnover rates, by industry—Continued**

[Per 100 employees]

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>
<b>DURABLE GOODS – Continued</b>											
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	3.0	3.1	2.4	2.7	2.2	2.3	1.1	1.2	0.4	0.3
381	Engineering and scientific instruments	2.4	-	2.0	-	1.4	-	.9	-	.2	-
382	Mechanical measuring and control devices	3.8	-	2.0	-	2.4	-	1.1	-	.3	-
3821	Mechanical measuring devices	3.0	-	2.3	-	1.9	-	1.0	-	.3	-
3822	Automatic temperature controls	5.3	-	4.2	-	3.1	-	1.3	-	.5	-
383.5	Optical and ophthalmic goods	3.2	-	2.7	-	2.4	-	1.6	-	.4	-
384	Medical instruments and supplies	3.7	-	3.2	-	2.6	-	1.6	-	.3	-
386	Photographic equipment and supplies	1.5	-	1.1	-	1.6	-	.5	-	.5	-
387	Watches, clocks, and watchcases	4.8	-	3.0	-	4.3	-	1.8	-	.6	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	5.2	5.6	3.8	4.5	4.5	4.6	2.2	2.2	1.3	1.1
391	Jewelry, silverware, and plated ware	3.7	-	2.7	-	3.4	-	1.7	-	.9	-
394	Toys and sporting goods	7.2	-	4.9	-	5.7	-	2.5	-	1.7	-
3941.3	Games, toys, dolls and play vehicles	8.7	-	5.4	-	6.0	-	2.7	-	1.8	-
3949	Sporting and athletic goods, nec	5.5	-	4.3	-	5.4	-	2.4	-	1.6	-
395	Pens, pencils, office and art supplies	3.5	-	2.9	-	3.3	-	1.8	-	.5	-
396	Costume jewelry and notions	5.8	-	4.3	-	5.2	-	3.2	-	1.1	-
393.9	Other manufacturing industries	4.3	-	3.4	-	4.1	-	1.9	-	1.4	-
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b>	6.8	8.1	4.8	6.1	5.2	5.4	2.6	2.8	1.8	1.8
201	Meat products	8.0	-	5.7	-	6.7	-	4.3	-	1.4	-
2011	Meat packing plants	4.3	-	2.6	-	4.3	-	1.7	-	1.8	-
2015	Poultry dressing plants	14.3	-	11.4	-	11.2	-	9.3	-	.5	-
204	Grain mill products	4.9	-	3.0	-	3.2	-	1.8	-	.7	-
2041	Flour and other grain mill products	2.4	-	1.8	-	2.1	-	1.0	-	.7	-
2042	Prepared feeds for animals and fowls	6.2	-	4.2	-	4.1	-	2.8	-	.6	-
205	Bakery products	4.2	-	3.7	-	3.4	-	1.9	-	.9	-
2051	Bread, cake, and related products	4.5	-	4.1	-	2.9	-	2.0	-	.4	-
2052	Cookies and crackers	2.7	-	1.5	-	5.6	-	1.1	-	3.9	-
207	Confectionery and related products	6.1	-	2.5	-	6.1	-	1.8	-	3.7	-
2071	Confectionery products	7.2	-	3.0	-	7.5	-	2.2	-	4.6	-
208	Beverages	6.6	-	5.0	-	4.5	-	2.1	-	1.4	-
2082	Malt liquors	6.0	-	3.1	-	3.6	-	.5	-	2.3	-
21	<b>TOBACCO MANUFACTURES</b>	2.5	-	1.0	-	4.5	-	1.0	-	2.6	-
211	Cigarettes	2.4	-	.5	-	2.8	-	1.0	-	.8	-
212	Cigars	3.3	-	2.8	-	2.5	-	1.5	-	.5	-
22	<b>TEXTILE MILL PRODUCTS</b>	5.4	5.2	4.5	4.3	4.9	4.7	3.2	3.1	.6	.6
221	Weaving mills, cotton	4.4	-	3.4	-	4.7	-	3.0	-	.6	-
222	Weaving mills, synthetics	5.0	-	4.4	-	5.2	-	3.3	-	.6	-
223	Weaving and finishing mills, wool	4.8	-	4.0	-	4.0	-	2.8	-	.3	-
224	Narrow fabric mills	4.8	-	3.9	-	4.6	-	2.7	-	.8	-
225	Knitting mills	6.3	-	5.2	-	5.4	-	3.4	-	1.0	-
2251	Women's hosiery, except socks	4.8	-	4.0	-	5.6	-	3.1	-	1.8	-
2252	Hosiery, nec	5.8	-	5.3	-	5.1	-	4.3	-	.2	-
2254	Knit underwear mills	4.9	-	4.3	-	4.5	-	3.6	-	.2	-
226	Textile finishing, except wool	4.5	-	3.6	-	3.6	-	1.9	-	.6	-
227	Floor covering mills	4.9	-	4.1	-	4.2	-	2.8	-	.5	-
228	Yarn and thread mills	6.8	-	5.8	-	6.0	-	4.6	-	.2	-
229	Miscellaneous textile goods	4.4	-	3.2	-	3.9	-	2.1	-	.6	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	6.5	6.2	4.5	4.4	6.5	5.8	4.0	3.2	1.6	1.7
231	Men's and boys' suits and coats	5.8	-	3.1	-	3.9	-	1.8	-	1.4	-
232	Men's and boys' furnishings	6.6	-	5.2	-	8.3	-	6.5	-	1.0	-
2321	Men's and boys' shirts and nightwear	6.0	-	4.5	-	5.5	-	4.0	-	.7	-
2327	Men's and boys' separate trousers	5.6	-	4.3	-	5.4	-	3.7	-	1.2	-
2328	Men's and boys' work clothing	8.0	-	7.0	-	16.5	-	14.3	-	1.3	-
234	Women's and children's undergarments	5.8	-	4.1	-	5.3	-	3.4	-	1.0	-
2341	Women's and children's underwear	6.2	-	4.4	-	5.9	-	3.9	-	1.1	-
2342	Corsets and allied garments	4.3	-	3.1	-	3.3	-	2.0	-	.6	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	3.6	3.6	2.8	2.8	2.2	2.2	1.1	1.1	.4	..
261,2,6	Paper and pulp mills	2.9	-	2.3	-	1.2	-	.5	-	.2	-
263	Paperboard mills	2.6	-	2.0	-	1.4	-	.7	-	.2	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2. Labor turnover rates, by industry—Continued**

[Per 100 employees]

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>	May 1977	June 1977 <sup>P</sup>
	<b>NONDURABLE GOODS—Continued</b>										
	<b>PAPER AND ALLIED PRODUCTS—Continued</b>										
264	Miscellaneous converted paper products	3.8	-	3.0	-	2.5	-	1.4	-	0.4	-
2643	Bags, except textile bags	4.2	-	3.4	-	3.7	-	1.9	-	.8	-
265	Paperboard containers and boxes	4.3	-	3.4	-	3.1	-	1.5	-	.7	-
2651,2	Folding and setup paperboard boxes	4.0	-	3.1	-	3.3	-	1.5	-	1.0	-
2653	Corrugated and solid fiber boxes	4.1	-	3.2	-	3.0	-	1.4	-	.5	-
27	<b>PRINTING AND PUBLISHING</b>	3.7	3.8	2.8	3.1	3.3	2.9	1.8	1.8	.8	0.6
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	2.4	2.9	1.8	2.2	1.7	1.7	.7	.8	.4	.3
281	Industrial chemicals	2.0	-	1.5	-	1.1	-	.5	-	.2	-
282	Plastics materials and synthetics	2.1	-	1.6	-	1.3	-	.7	-	.2	-
2821	Plastics materials and resins	2.5	-	2.0	-	1.3	-	.7	-	.1	-
2823,4	Synthetic fibers	2.0	-	1.4	-	1.2	-	.6	-	.1	-
283	Drugs	2.2	-	1.8	-	1.5	-	.7	-	.3	-
2834	Pharmaceutical preparations	2.2	-	1.7	-	1.5	-	.7	-	.3	-
284	Soap, cleaners, and toilet goods	2.6	-	1.7	-	2.3	-	.8	-	.9	-
2841	Soap and other detergents	2.3	-	1.3	-	1.6	-	.4	-	.6	-
2844	Toilet preparations	2.6	-	1.5	-	3.3	-	.9	-	1.7	-
285	Paints and allied products	3.7	-	2.9	-	2.2	-	1.1	-	.1	-
286,9	Other chemical products	3.1	-	2.5	-	1.9	-	.9	-	.3	-
29	<b>PETROLEUM AND COAL PRODUCTS</b>	3.0	3.7	2.6	3.2	1.5	1.6	.7	.7	.2	.3
291	Petroleum refining	2.2	-	1.9	-	.9	-	.3	-	.1	-
295,9	Other petroleum and coal products	5.9	-	4.6	-	3.4	-	1.9	-	.5	-
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b>	6.1	6.1	4.9	5.0	4.4	4.4	2.7	2.6	.6	.7
301	Tires and inner tubes	3.3	-	2.6	-	1.8	-	.7	-	.2	-
302,3,6	Other rubber products	4.8	-	3.8	-	3.6	-	2.3	-	.4	-
307	Miscellaneous plastics products	7.5	-	6.2	-	5.7	-	3.5	-	.9	-
31	<b>LEATHER AND LEATHER PRODUCTS</b>	7.4	7.1	5.8	5.7	6.4	6.2	4.2	4.1	1.0	1.0
311	Leather tanning and finishing	5.9	-	4.7	-	5.1	-	2.6	-	1.4	-
314	Footwear, except rubber	7.9	-	6.5	-	6.8	-	4.8	-	.9	-
	<b>NONMANUFACTURING</b>										
10	<b>METAL MINING</b>	4.5	4.3	3.7	3.7	2.0	2.4	1.2	1.5	.1	.1
101	Iron ores	3.5	-	2.1	-	1.2	-	.4	-	.1	-
102	Copper ores	3.6	-	2.7	-	1.8	-	.8	-	.1	-
11,12	<b>COAL MINING</b>	2.3	1.8	1.9	1.7	1.6	.9	.8	.5	.3	( <sup>1</sup> )
12	Bituminous coal and lignite mining	2.3	-	1.9	-	1.5	-	.8	-	.3	-
481	<b>COMMUNICATION:</b> Telephone communication	1.2	-	-	-	.6	-	.3	-	( <sup>1</sup> )	-
482	Telegraph communication <sup>2</sup>	(*)	-	-	-	(*)	-	(*)	-	(*)	-

<sup>1</sup> Less than 0.05.

<sup>2</sup> Data relate to all employees except messengers.

\*Not available.  
p=preliminary

# ESTABLISHMENT DATA

## SEASONALLY ADJUSTED LABOR TURNOVER

### D-3. Labor turnover rates in manufacturing, 1965 to date, seasonally adjusted

[Per 100 employees]

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>												
1965.....	4.1	4.2	4.3	4.1	4.1	4.2	4.2	4.3	4.5	4.4	4.7	4.9
1966.....	4.9	5.0	5.3	5.1	5.0	4.9	4.9	5.0	5.0	4.9	4.7	4.7
1967.....	4.5	4.4	4.3	4.3	4.4	4.5	4.4	4.3	4.4	4.4	4.5	4.6
1968.....	4.4	4.4	4.6	4.6	4.6	4.5	4.5	4.7	4.6	4.8	4.9	4.9
1969.....	4.9	4.8	4.9	4.9	4.7	5.0	4.7	4.5	4.7	4.6	4.5	4.6
1970.....	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971.....	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972.....	4.3	4.3	4.4	4.3	4.4	4.2	4.3	4.4	4.4	4.5	4.5	4.9
1973.....	5.0	5.1	5.0	4.8	4.7	4.6	4.6	4.7	4.6	4.8	4.9	4.7
1974.....	4.6	4.5	4.5	4.6	4.6	4.3	4.3	4.1	3.9	3.6	3.1	3.1
1975.....	3.1	3.2	3.2	3.7	3.6	3.7	4.0	3.9	3.8	3.7	3.7	3.9
1976.....	4.1	4.2	4.4	4.1	4.0	3.8	3.8	3.8	3.6	3.5	3.8	4.0
1977.....	4.0	4.6	4.3	4.1	4.1	3.9 <sup>P</sup>						
<b>New hires</b>												
1965.....	2.9	3.0	3.1	2.9	2.9	3.0	3.0	3.1	3.1	3.3	3.5	3.7
1966.....	3.7	3.8	4.1	4.0	4.0	3.9	3.8	3.7	3.7	3.9	3.7	3.6
1967.....	3.4	3.4	3.2	3.1	3.1	3.3	3.2	3.1	3.3	3.3	3.4	3.5
1968.....	3.3	3.3	3.4	3.5	3.5	3.4	3.4	3.5	3.6	3.6	3.6	3.7
1969.....	3.7	3.8	3.9	3.8	3.7	3.9	3.6	3.5	3.7	3.6	3.5	3.5
1970.....	3.4	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971.....	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972.....	3.0	3.0	3.1	3.2	3.2	3.1	3.2	3.2	3.4	3.4	3.6	3.8
1973.....	4.0	4.2	4.1	3.9	3.9	3.8	3.7	3.7	3.6	3.8	3.9	3.8
1974.....	3.7	3.6	3.6	3.6	3.5	3.3	3.3	3.1	2.9	2.6	2.2	1.9
1975.....	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.2	2.2	2.2	2.5
1976.....	2.6	2.8	3.0	2.8	2.7	2.7	2.5	2.5	2.4	2.3	2.4	2.5
1977.....	2.7	2.9	3.0	3.0	3.0	2.8 <sup>P</sup>						
<b>Total separations</b>												
1965.....	3.8	3.8	3.8	4.0	4.0	4.0	3.9	4.4	4.1	4.3	4.3	4.5
1966.....	4.3	4.3	4.5	4.5	4.6	4.7	4.9	4.8	4.6	4.6	4.8	4.9
1967.....	4.8	4.9	4.9	4.7	4.6	4.6	4.5	4.3	4.5	4.5	4.4	4.5
1968.....	4.7	4.6	4.5	4.5	4.4	4.5	4.6	4.7	4.7	4.6	4.6	4.6
1969.....	4.6	4.9	4.9	4.8	4.8	5.0	4.8	4.9	4.9	5.0	4.9	4.9
1970.....	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971.....	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972.....	4.2	4.1	4.0	4.3	4.2	4.5	4.4	4.1	4.0	4.2	4.2	4.5
1973.....	4.5	4.6	4.6	4.5	4.6	4.6	4.7	4.6	4.5	4.7	4.7	4.7
1974.....	4.9	4.9	4.8	4.7	4.6	4.6	4.5	4.5	4.5	4.9	5.1	4.9
1975.....	5.2	5.0	4.5	4.4	4.6	4.3	3.9	3.8	3.9	3.8	3.8	3.6
1976.....	3.5	3.6	3.8	3.8	3.8	3.9 <sup>P</sup>	3.9	4.0	4.1	4.0	3.6	3.6
1977.....	3.9	4.1	3.7	3.8	3.8	3.9 <sup>P</sup>						
<b>Quits</b>												
1965.....	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	2.0	2.0	2.1	2.2
1966.....	2.3	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7
1967.....	2.5	2.5	2.4	2.4	2.3	2.4	2.2	2.2	2.3	2.3	2.3	2.4
1968.....	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.5	2.6	2.6
1969.....	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6
1970.....	2.5	2.5	2.3	2.3	2.1	2.1	2.1	2.0	2.0	1.9	1.8	1.9
1971.....	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972.....	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.6
1973.....	2.7	2.9	2.8	2.8	2.7	2.7	2.8	2.7	2.6	2.8	2.8	2.7
1974.....	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.3	2.1	2.0	1.8	1.6
1975.....	1.4	1.3	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.4	1.6	1.6
1976.....	1.6	1.7	1.8	1.8	1.7	1.8 <sup>P</sup>	1.7	1.7	1.6	1.5	1.5	1.7
1977.....	1.8	1.9	1.9	1.9	1.9	1.9 <sup>P</sup>						
<b>Layoffs</b>												
1965.....	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.7	1.4	1.4	1.4	1.4
1966.....	1.2	1.1	1.1	1.1	1.1	1.2	1.5	1.2	1.0	1.1	1.2	1.3
1967.....	1.4	1.5	1.6	1.5	1.4	1.3	1.4	1.3	1.3	1.3	1.2	1.2
1968.....	1.4	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.1
1969.....	1.0	1.1	1.1	1.0	1.1	1.3	1.1	1.2	1.2	1.3	1.3	1.4
1970.....	1.5	1.7	1.8	1.9	1.9	1.9	1.6	1.9	1.9	2.2	2.0	1.7
1971.....	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972.....	1.2	1.2	1.1	1.2	1.1	1.4	1.3	1.1	1.0	1.0	.9	.9
1973.....	.8	.7	.8	.8	.8	.8	1.1	.9	.9	.9	.9	1.0
1974.....	1.3	1.2	1.1	1.0	1.1	1.2	1.2	1.3	1.5	2.0	2.4	2.4
1975.....	2.9	2.9	2.6	2.4	2.5	2.2	1.7	1.6	1.8	1.7	1.5	1.3
1976.....	1.1	1.0	1.1	1.2	1.3	1.3 <sup>P</sup>	1.4	1.4	1.7	1.6	1.3	1.1
1977.....	1.3	1.4	1.0	1.0	1.1	1.2 <sup>P</sup>						

p=preliminary.

**ESTABLISHMENT DATA**  
**STATE AND AREA LABOR TURNOVER**

**D-4. Labor turnover rates in manufacturing for selected States and areas**

[ Per 100 employees ]

State and area	Accession rates				Separation rates						
	Total		New hires		Total		Quits		Layoffs		
	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	
<b>ALABAMA:</b>											
Birmingham .....	3.5	3.4	1.7	2.0	3.0	3.3	1.2	1.2	1.0	1.4	
Mobile <sup>1</sup> .....	6.6	7.4	2.0	2.5	6.0	9.1	1.6	1.8	3.8	6.7	
<b>ALASKA</b> .....	14.7	24.7	11.7	15.8	8.7	8.7	5.2	5.7	2.8	1.7	
<b>ARIZONA</b> .....	4.3	5.4	3.2	4.3	3.4	3.7	2.0	2.3	.5	.5	
Phoenix .....	4.5	5.6	3.3	4.5	3.6	3.7	2.0	2.3	.5	.4	
<b>ARKANSAS</b> .....	6.9	8.1	5.9	7.0	6.5	6.5	4.6	4.4	.7	.9	
Fort Smith .....	7.1	12.9	6.0	11.5	7.3	9.0	4.6	6.6	.7	.5	
Little Rock-North Little Rock .....	5.1	5.5	4.6	4.8	5.3	4.7	3.6	3.2	.4	.4	
Pine Bluff .....	3.6	5.6	2.8	4.0	3.9	4.3	3.0	3.7	.4	.1	
<b>COLORADO</b> <sup>2</sup> .....	3.9	5.0	3.4	4.3	3.5	3.3	1.8	2.1	.8	.5	
Denver-Boulder <sup>2</sup> .....	3.7	4.5	3.4	4.1	3.2	3.5	1.9	2.1	.4	.6	
<b>CONNECTICUT</b> .....	2.2	2.9	1.4	2.0	2.2	2.0	1.0	1.0	.5	.5	
Hartford .....	1.6	2.4	1.0	1.6	1.9	1.6	.9	.8	.4	.3	
<b>DELAWARE</b> <sup>1</sup> .....	2.6	2.8	1.5	1.7	2.0	1.9	.7	.9	.6	.4	
Wilmington <sup>1</sup> .....	2.5	2.7	1.3	1.6	1.5	1.5	.5	.6	.4	.3	
<b>DISTRICT OF COLUMBIA:</b>											
Washington SMSA .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	
<b>FLORIDA</b> .....	5.2	5.1	4.1	4.3	5.1	4.8	2.6	2.6	1.5	1.2	
Fort Lauderdale-Hollywood .....	6.0	6.8	5.6	6.1	6.1	4.5	3.6	3.0	.9	.3	
Jacksonville .....	8.6	5.8	4.3	4.6	4.6	5.0	2.0	2.2	1.5	1.2	
Miami .....	5.1	5.3	4.6	4.3	4.9	4.3	2.4	2.1	1.7	1.2	
Orlando .....	4.8	3.6	3.9	2.7	5.0	4.5	2.7	2.0	1.4	1.8	
Pensacola .....	2.8	3.9	2.0	2.7	1.7	2.1	1.2	1.4	.1	.1	
Tampa-St. Petersburg .....	5.4	4.7	4.1	4.0	4.9	4.9	3.2	3.3	.8	.7	
West Palm Beach-Boca Raton .....	3.7	3.0	2.7	2.7	4.7	2.6	1.5	1.8	2.3	.1	
<b>GEORGIA</b> .....	4.1	4.9	3.5	4.2	3.8	4.3	2.5	2.9	.4	.5	
Atlanta <sup>3</sup> .....	3.5	4.2	2.9	3.4	3.0	3.4	1.7	1.9	.6	.7	
<b>HAWAII</b> <sup>4</sup> .....	1.7	3.0	1.3	2.0	1.7	3.6	.8	.8	.3	2.0	
<b>IDAHO</b> <sup>5</sup> .....	8.0	9.6	4.6	5.9	7.5	4.8	3.6	3.2	2.4	.7	
<b>ILLINOIS:</b>											
Chicago SMSA .....	2.8	4.2	2.2	3.4	2.9	3.3	1.4	1.7	.6	.6	
<b>INDIANA</b> .....	3.4	4.6	2.3	3.4	2.8	3.0	1.4	1.5	.6	.5	
Indianapolis <sup>6</sup> .....	2.5	5.0	1.6	3.2	1.9	3.0	.8	1.2	.3	.5	
<b>IOWA</b> <sup>2</sup> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	
Cedar Rapids <sup>2</sup> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	
Des Moines <sup>2</sup> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	
<b>KANSAS</b> .....	4.5	5.6	3.8	4.8	4.3	4.6	2.9	3.2	.6	.4	
Topeka .....	4.1	5.1	3.7	4.6	3.1	4.1	1.8	2.6	.6	.8	
Wichita .....	3.9	6.0	3.3	5.0	3.7	4.4	2.6	3.2	.3	.2	
<b>KENTUCKY</b> .....	4.5	4.8	2.7	3.3	3.8	4.0	1.7	1.8	.9	1.3	
Louisville .....	3.6	3.5	2.0	2.0	2.1	2.7	.7	1.0	.3	.7	
<b>LOUISIANA:</b>											
New Orleans .....	3.7	5.4	2.8	4.4	3.3	3.3	2.0	2.1	.4	.5	
<b>MAINE</b> .....	6.1	7.8	4.7	6.0	5.3	5.8	3.2	3.5	1.2	1.3	
Portland .....	3.4	5.1	3.0	4.1	3.0	3.2	1.7	2.0	.6	.7	
<b>MARYLAND</b> .....	3.4	3.4	2.0	2.2	2.6	2.7	1.0	1.1	1.0	1.1	
Baltimore .....	3.5	3.0	1.9	1.8	2.3	2.5	.9	.9	.8	1.1	
<b>MASSACHUSETTS</b> .....	3.4	3.8	2.3	2.8	3.0	2.9	1.4	1.5	.8	.7	
Boston .....	2.8	3.1	1.9	2.3	2.6	2.5	1.1	1.2	.7	.6	
<b>MICHIGAN</b> .....	2.8	3.6	1.7	2.3	2.3	2.3	.8	.9	.7	.6	
Detroit .....	3.1	3.6	2.0	2.4	2.1	2.5	1.0	1.1	.3	.5	
Flint .....	1.8	3.0	1.3	2.4	1.4	1.5	.4	.5	.2	.1	
Grand Rapids .....	3.3	3.9	1.5	2.2	3.8	2.7	1.4	1.0	1.3	.8	
Lansing-East Lansing .....	2.9	6.4	1.0	3.4	3.3	6.6	.6	.8	1.1	3.2	

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**

**D-4. Labor turnover rates in manufacturing for selected States and areas—Continued**

[Per 100 employees]

State and area	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>
MINNESOTA .....	3.3	4.4	2.2	3.3	2.9	2.6	1.6	1.7	0.8	0.4
Minneapolis—St. Paul .....	2.7	3.6	2.1	2.9	2.4	2.4	1.4	1.5	.4	.3
MISSISSIPPI:										
Jackson .....	5.0	4.3	3.6	4.0	4.2	3.6	2.3	2.0	.6	1.0
MISSOURI <sup>2</sup> .....	3.6	4.3	2.6	3.4	3.1	3.1	1.6	1.8	.8	.6
Kansas City <sup>2</sup> .....	3.2	4.3	2.6	3.6	3.0	3.3	1.5	2.0	.7	.6
St. Louis <sup>2</sup> .....	3.3	3.5	2.0	2.4	2.5	2.2	1.1	1.1	.7	.5
MONTANA .....	3.7	3.3	2.9	2.6	2.8	3.1	1.7	1.5	.5	.9
NEBRASKA .....	4.5	6.0	3.6	4.8	4.3	3.9	3.0	2.7	.5	.4
NEVADA .....	7.4	7.4	6.5	6.4	6.1	6.4	3.8	4.2	.6	.4
NEW HAMPSHIRE .....	4.2	4.8	2.9	3.9	3.5	3.3	2.3	2.2	.5	.4
NEW JERSEY:										
Camden <sup>7</sup> .....	2.7	3.0	1.6	1.8	3.1	3.0	1.0	.7	1.2	1.5
Hackensack .....	3.5	4.1	3.1	3.2	3.7	4.0	1.7	1.7	.8	1.2
Jersey City .....	3.5	3.6	1.8	2.5	2.8	1.8	.8	.6	1.3	.6
Newark .....	3.1	3.6	2.1	2.4	3.1	2.8	1.0	1.0	1.2	1.0
New Brunswick—Perth Amboy—Sayreville .....	3.8	4.3	2.5	2.8	3.9	3.0	1.1	1.2	1.5	.6
Paterson—Clifton—Passaic .....	3.9	4.8	2.4	2.7	3.6	3.2	1.3	1.4	1.6	.9
Trenton .....	2.7	2.8	1.7	1.9	2.6	2.0	.9	.8	.9	.4
NEW YORK <sup>2</sup> .....	3.5	3.8	2.1	2.4	3.3	3.4	1.0	1.1	1.5	1.5
Albany—Schenectady—Troy <sup>2</sup> .....	2.6	3.2	1.3	2.0	2.6	2.1	.7	.6	1.0	.6
Binghamton <sup>2</sup> .....	2.6	2.9	2.0	2.2	2.2	2.1	1.1	1.2	.4	.3
Buffalo <sup>2</sup> .....	2.3	2.9	1.2	1.5	2.1	1.9	.5	.5	.8	.6
Elmira <sup>2</sup> .....	3.1	3.2	2.1	1.7	2.1	2.1	1.0	.7	.4	.4
Monroe County <sup>2 8</sup> .....	1.6	2.2	1.2	1.8	1.5	1.6	.6	.6	.3	.5
Nassau—Suffolk <sup>2 9</sup> .....	3.5	4.4	2.9	3.7	3.3	3.6	1.7	1.7	.8	.8
New York and Nassau—Suffolk <sup>2</sup> .....	4.4	4.3	2.6	2.8	4.1	4.5	1.1	1.2	2.2	2.4
New York SMSA <sup>2 9</sup> .....	4.6	4.2	2.5	2.6	4.3	4.7	.9	1.1	2.6	2.7
New York City <sup>2 10</sup> .....	4.9	4.5	2.6	2.7	4.6	5.0	1.0	1.1	2.8	3.0
Rochester <sup>2</sup> .....	2.0	2.7	1.4	2.1	1.7	2.0	.7	.7	.5	.7
Syracuse <sup>2</sup> .....	2.2	3.5	1.3	2.2	2.1	2.1	1.0	.8	.5	.7
Utica—Rome <sup>2</sup> .....	3.0	3.3	1.9	1.9	2.3	2.6	.8	1.0	1.0	.9
Westchester County <sup>2 10</sup> .....	2.3	2.7	1.6	2.1	2.5	3.0	.8	1.2	.8	.6
NORTH CAROLINA .....	4.2	5.5	3.6	4.7	4.1	4.6	3.1	3.4	.3	.3
Charlotte—Gastonia .....	5.0	5.7	4.3	4.9	4.7	4.9	3.7	3.6	.2	.4
Greensboro—Winston-Salem—High Point .....	3.8	5.8	3.3	4.8	3.5	4.7	2.7	3.4	.1	.4
NORTH DAKOTA .....	5.4	6.5	3.1	3.7	6.6	4.3	2.5	2.5	3.5	1.1
Fargo—Moorhead .....	10.0	8.1	3.7	3.7	4.7	3.6	2.7	2.3	1.5	.5
OHIO .....	3.0	3.5	1.8	2.3	2.2	2.4	.9	.9	.5	.6
Akron .....	1.7	2.0	.7	1.0	1.7	1.4	.6	.6	.6	.4
Canton .....	3.2	4.0	1.6	2.6	2.0	3.0	.7	.8	.5	1.2
Cincinnati .....	2.8	3.2	1.8	2.0	2.2	2.2	1.0	1.0	.6	.5
Cleveland .....	2.7	3.1	1.9	2.2	2.2	2.4	1.1	1.1	.3	.5
Columbus .....	2.9	3.2	1.9	2.5	2.3	2.6	1.0	1.2	.5	.6
Dayton .....	3.2	3.5	2.3	2.6	2.1	2.3	.9	.9	.4	.4
Toledo .....	2.2	3.7	1.2	2.4	1.9	2.2	.7	1.1	.6	.3
Youngstown—Warren .....	3.5	2.7	1.1	1.1	1.6	1.9	.4	.3	.4	.6
OKLAHOMA .....	5.4	7.5	4.6	6.5	5.5	5.9	3.9	4.2	.6	.7
Oklahoma City .....	5.4	6.9	4.7	6.1	5.2	5.4	3.8	3.8	.5	.5
Tulsa <sup>11</sup> .....	4.7	6.8	4.2	5.9	4.9	5.6	3.4	3.9	.6	.6
OREGON <sup>1</sup> .....	5.0	5.1	3.7	3.7	4.4	3.7	2.3	2.2	1.2	.9
Portland <sup>1</sup> .....	5.0	4.8	3.4	3.8	4.1	3.6	2.1	1.9	1.2	.9
PENNSYLVANIA .....	3.5	4.0	1.5	2.4	3.3	2.8	.9	1.0	1.7	1.1
Allentown—Bethlehem—Easton .....	2.6	3.2	1.2	1.8	2.5	2.1	.8	.7	1.2	.9
Altoona .....	5.1	5.1	2.4	3.4	2.4	2.7	1.4	1.5	.5	.6
Erie .....	3.1	4.6	1.6	2.4	2.8	2.3	1.0	1.1	.8	.4
Harrisburg .....	2.7	3.3	1.3	2.1	4.2	3.6	1.3	1.2	2.4	1.9
Johnstown .....	3.8	3.3	1.2	1.5	3.4	2.4	.9	.8	2.1	1.3
Lancaster .....	3.0	3.7	2.1	3.1	2.5	2.4	1.5	1.5	.4	.3

See footnotes at end of table.

**ESTABLISHMENT DATA**  
**STATE AND AREA LABOR TURNOVER**

**D-4. Labor turnover rates in manufacturing for selected States and areas—Continued**

[Per 100 employees]

State and area	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>	Apr. 1977	May 1977 <sup>P</sup>
<b>PENNSYLVANIA—Continued</b>										
Northeast Pennsylvania .....	3.3	3.4	1.3	1.6	3.8	3.4	0.9	0.9	2.2	1.9
Philadelphia SMSA .....	2.6	3.6	1.5	2.3	2.8	2.7	.9	.9	1.2	1.2
Pittsburgh .....	3.2	3.5	1.0	1.6	2.3	2.0	.4	.5	1.2	.9
Reading <sup>12</sup> .....	3.2	4.1	1.9	2.7	3.7	2.8	1.3	1.2	1.8	.9
Scranton <sup>12</sup> .....	2.5	4.1	1.3	1.7	3.7	3.3	.9	1.0	2.2	1.9
Wilkes-Barre—Hazleton <sup>12</sup> .....	3.7	3.0	1.3	1.2	4.2	3.3	1.1	.8	2.4	1.6
Williamsport .....	2.5	3.1	1.2	2.0	1.5	2.0	.9	.9	.2	.8
York .....	3.2	4.2	2.0	3.1	3.6	2.8	1.5	1.6	1.5	.7
<b>RHODE ISLAND</b>										
Providence—Warwick—Pawtucket .....	4.7	5.1	3.4	3.9	4.9	4.4	2.6	2.5	1.4	.9
.....	4.6	5.0	3.4	3.9	4.7	4.3	2.5	2.5	1.3	.8
<b>SOUTH CAROLINA</b>										
Charleston—North Charleston .....	4.0	4.6	3.4	3.9	3.8	3.9	2.6	2.6	.3	.3
Columbia .....	4.1	5.0	3.2	4.6	4.1	4.3	2.2	2.4	.8	.6
Greenville—Spartanburg .....	6.6	5.4	6.3	5.1	5.4	3.8	4.0	2.6	.6	.5
.....	4.2	5.2	3.7	4.5	4.5	5.4	3.0	3.3	.4	.5
<b>SOUTH DAKOTA</b>										
Sioux Falls .....	3.5	5.3	2.8	4.0	5.2	4.8	2.4	2.9	2.3	1.2
.....	2.9	5.5	1.7	3.2	4.4	2.9	1.3	1.8	2.5	1.0
<b>TENNESSEE:</b>										
Memphis .....	4.0	4.7	3.1	3.6	3.0	3.1	1.4	1.7	.8	.6
<b>TEXAS:</b>										
Dallas—Fort Worth .....	4.6	5.5	4.3	5.0	4.2	4.4	3.0	3.4	.3	.2
Houston .....	3.5	4.6	3.1	4.1	3.6	3.8	2.6	2.6	.2	.3
San Antonio .....	3.5	5.1	2.9	4.5	3.4	3.4	2.2	2.3	.5	.4
<b>UTAH <sup>4</sup></b>										
Salt Lake City—Ogden <sup>4</sup> .....	5.0	6.0	4.1	5.1	4.6	4.7	3.1	3.2	.6	.6
.....	4.5	4.7	4.0	4.3	4.5	4.2	2.9	2.9	.5	.4
<b>VERMONT</b>										
Burlington .....	3.5	4.7	2.5	3.4	2.8	3.4	1.5	1.6	.6	1.4
Springfield .....	2.8	4.1	2.2	3.3	1.2	1.3	.6	.6	.3	.5
.....	3.2	3.4	1.5	2.0	2.8	2.0	1.2	.7	.7	.9
<b>VIRGINIA</b>										
Richmond .....	3.4	4.2	2.6	3.4	3.4	3.3	1.8	2.0	.8	.4
.....	2.0	2.1	1.5	1.7	1.9	1.9	.9	.9	.2	.4
<b>WASHINGTON:</b>										
Seattle—Everett <sup>2 13</sup> .....	3.8	4.1	2.5	2.8	3.3	2.7	1.4	1.2	1.2	.9
<b>WISCONSIN</b>										
Milwaukee .....	2.9	4.0	1.7	2.6	2.6	2.6	1.1	1.2	.7	.6
.....	2.3	3.7	1.5	2.4	2.5	2.2	.9	1.0	.8	.3
<b>WYOMING</b>										
.....	7.7	11.2	6.2	9.9	6.5	6.5	4.6	3.5	1.4	.4

<sup>1</sup> Excludes canning and preserving.

<sup>2</sup> Based on the 1967 Standard Industrial Classification Manual.

<sup>3</sup> Excludes agricultural chemicals, and miscellaneous manufacturing.

<sup>4</sup> Excludes canned fruits, vegetables, preserves, jams, and jellies.

<sup>5</sup> Excludes canning and preserving, and sugar.

<sup>6</sup> Excludes canning and preserving, and newspapers.

<sup>7</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

<sup>8</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>9</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>10</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>11</sup> Excludes new-hire rate for transportation equipment.

<sup>12</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

<sup>13</sup> Excludes canning and preserving, printing and publishing.

p=preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

# STATE AND AREA UNEMPLOYMENT DATA

## E-1. Labor force and unemployment by State and selected metropolitan areas

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P
<b>ALABAMA</b>	1,502.8	1,522.3	1,536.0	110.2	84.6	92.5	7.3	5.6	6.0
Birmingham	353.2	361.9	367.3	26.1	19.7	21.4	7.4	5.4	5.8
Huntsville	124.4	124.4	125.6	9.7	6.8	7.7	7.8	5.5	6.2
Mobile	169.8	169.9	172.6	11.2	9.9	11.4	6.6	5.8	6.6
Montgomery	104.2	104.4	106.0	6.1	4.6	5.3	5.9	4.4	5.0
Tuscaloosa	50.1	52.5	51.8	2.8	2.7	2.7	5.5	5.1	5.2
<b>ALASKA</b>	170.7	154.3	155.7	13.4	21.3	18.6	7.9	13.8	11.9
<b>ARIZONA</b>	952.3	955.4	952.3	99.1	65.3	69.6	10.4	6.8	7.3
Phoenix	553.0	559.4	557.0	58.6	36.8	39.7	10.6	6.6	7.1
Tucson	182.2	182.5	180.6	15.5	11.4	11.4	8.5	6.2	6.3
<b>ARKANSAS</b>	892.5	908.0	918.3	65.5	48.4	52.1	7.3	5.3	5.7
Fayetteville-Springdale	63.2	66.8	67.0	3.4	2.6	2.9	5.4	4.0	4.3
Fort Smith <sup>1</sup>	76.6	79.7	80.7	5.3	4.5	4.6	6.9	5.7	5.7
Little Rock-North Little Rock	171.5	171.4	176.9	11.0	6.3	7.5	6.4	3.7	4.2
Pine Bluff	33.9	34.2	34.1	3.3	2.0	2.3	9.7	5.8	6.8
<b>CALIFORNIA</b>	9,885.3	9,931.9	10,086.2	926.0	770.5	788.6	9.4	7.8	7.8
Anaheim-Santa Ana-Garden Grove	839.2	859.2	875.0	53.8	37.0	42.6	6.4	4.3	4.9
Bakersfield	162.7	155.0	163.9	12.9	10.4	10.3	7.9	6.7	6.3
Fresno	235.5	239.1	247.5	18.2	18.7	17.0	7.7	7.8	6.9
Los Angeles-Long Beach	3,303.8	3,320.7	3,359.4	301.0	244.9	253.0	9.1	7.4	7.5
Modesto	118.9	124.8	127.4	18.1	18.1	18.7	15.2	14.5	14.7
Oxnard-Simi Valley-Ventura	183.7	185.1	187.8	15.7	11.2	12.1	8.5	6.1	6.4
Riverside-San Bernardino-Ontario	493.4	488.9	497.7	49.7	40.9	42.4	10.1	8.4	8.5
Sacramento	396.6	413.7	419.7	34.1	31.9	32.2	8.6	7.7	7.7
Salinas-Seaside-Monterey	117.9	120.0	122.4	7.9	7.2	7.0	6.7	6.0	5.7
San Diego	663.9	661.9	667.7	83.0	66.4	68.0	12.5	10.0	10.2
San Francisco-Oakland	1,539.5	1,512.7	1,523.4	167.0	129.7	132.2	10.8	8.6	8.7
San Jose	576.8	575.8	588.7	49.3	36.8	41.4	8.5	6.4	7.0
Santa Barbara-Santa Maria-Lompoc	127.5	130.5	132.1	8.6	7.6	7.9	6.7	5.8	6.0
Santa Rosa	102.5	105.9	107.3	10.8	9.1	9.2	10.5	8.6	8.6
Stockton	155.9	158.2	156.4	13.6	14.3	12.8	8.7	9.0	8.2
Vallejo-Fairfield-Napa	109.5	112.0	115.1	7.7	8.3	7.7	7.0	7.4	6.7
<b>COLORADO</b>	1,261.3	1,247.5	1,273.4	74.7	68.6	74.2	5.9	5.5	5.8
Denver-Boulder	736.6	736.7	744.6	45.0	40.8	44.4	6.1	5.5	6.0
<b>CONNECTICUT</b>	1,501.6	1,464.2	1,485.9	145.7	107.1	110.8	9.7	7.3	7.5
Bridgeport	187.2	179.8	181.7	20.7	13.9	14.3	11.1	7.7	7.9
Hartford	355.1	348.7	355.0	31.5	23.4	25.6	8.9	6.7	7.2
New Britain	70.5	69.8	70.2	8.0	6.0	5.6	11.4	8.5	7.9
New Haven-West Haven	201.5	194.8	195.3	20.8	16.8	16.0	10.3	8.6	8.2
Stamford	109.5	106.4	108.5	7.8	5.8	5.9	7.1	5.5	5.4
Waterbury	108.0	104.4	106.3	12.0	8.7	9.0	11.1	8.3	8.5
<b>DELAWARE</b>	263.8	263.9	266.8	23.1	19.8	20.3	8.8	7.5	7.6
Wilmington <sup>1</sup>	229.8	230.7	232.3	21.4	16.4	17.1	9.3	7.1	7.4
<b>DISTRICT OF COLUMBIA</b>	340.8	335.3	343.3	32.5	26.5	30.6	9.5	7.9	8.9
Washington SMSA <sup>1</sup>	1,486.2	1,473.6	1,501.5	81.3	66.3	76.5	5.5	4.5	5.1
<b>FLORIDA</b>	3,481.2	3,537.2	3,502.0	326.1	244.9	252.1	9.4	6.9	7.2
Fort Lauderdale-Hollywood	343.2	348.5	342.8	38.7	28.9	27.3	11.3	8.3	8.0
Jacksonville	296.9	302.0	304.1	20.8	16.8	18.7	7.0	5.6	6.1
Miami	665.4	659.0	658.6	64.2	45.6	48.8	9.7	6.9	7.4
Orlando	275.9	278.4	277.8	26.1	19.5	20.4	9.4	7.0	7.4
Pensacola	106.4	112.9	111.4	6.4	5.2	5.4	6.0	4.6	4.9
Tampa-St. Petersburg	542.2	553.2	542.4	51.4	40.6	40.3	9.5	7.3	7.4
West Palm Beach-Boca Raton	189.9	195.1	186.4	21.4	15.1	14.4	11.3	7.7	7.7
<b>GEORGIA</b>	2,232.1	2,208.7	2,233.3	195.3	136.2	148.4	8.8	6.2	6.6
Atlanta	898.3	889.8	890.2	72.0	51.0	53.9	8.0	5.7	6.1
Augusta <sup>1</sup>	116.7	112.4	114.1	10.8	7.9	8.2	9.3	7.0	7.2
Columbus <sup>1</sup>	86.5	78.2	79.6	7.9	5.3	6.1	9.2	6.8	7.7
Macon	100.9	94.2	94.4	11.3	7.9	8.5	11.2	8.4	9.0
Savannah	82.7	79.4	79.4	8.3	5.9	6.4	10.0	7.5	8.1

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P
<b>HAWAII</b>	410.6	397.5	404.5	40.9	29.7	32.0	10.0	7.5	7.9
Honolulu	328.7	318.9	324.2	31.3	22.9	24.8	9.5	7.2	7.6
<b>IDAHO</b>	377.5	381.6	394.8	22.2	18.3	18.3	5.9	4.8	4.6
Boise City	74.3	76.6	77.0	2.5	2.3	2.4	3.4	3.0	3.2
<b>ILLINOIS</b>	5,153.4	5,186.1	5,242.8	332.8	247.4	268.5	6.5	4.8	5.1
Bloomington—Normal	56.0	59.5	57.5	2.2	2.0	2.1	3.9	3.4	3.7
Champaign—Urbana—Rantoul	77.3	75.4	74.6	3.5	2.6	2.9	4.5	3.4	3.9
Chicago	3,240.1	3,232.1	3,269.6	214.7	144.9	159.0	6.6	4.5	4.9
Davenport—Rock Island—Moline <sup>1</sup>	178.0	174.8	176.0	8.8	6.2	6.8	4.9	3.5	3.9
Decatur	60.5	59.1	58.8	4.2	3.6	3.7	7.0	6.1	6.3
Peoria	174.6	169.0	170.1	7.8	7.4	7.9	4.5	4.4	4.7
Rockford	137.0	131.2	131.6	10.1	6.7	7.0	7.4	5.1	5.4
Springfield	92.7	91.2	91.5	4.6	4.4	4.4	4.9	4.8	4.8
<b>INDIANA</b>	2,476.6	2,471.6	2,505.5	153.5	112.6	123.5	6.2	4.6	4.9
Evansville <sup>1</sup>	131.8	132.4	133.9	6.0	4.3	5.3	4.6	3.3	4.0
Fort Wayne	181.1	179.2	181.4	10.7	6.2	7.1	5.9	3.5	3.9
Gary—Hammond—East Chicago	282.1	280.1	288.7	18.2	12.7	14.7	6.5	4.5	5.1
Indianapolis	565.0	564.3	567.4	40.9	31.1	32.8	7.2	5.5	5.8
Muncie	55.3	56.8	57.1	3.3	2.1	2.3	5.9	3.6	4.0
South Bend	134.5	133.5	134.5	7.2	5.1	6.5	5.4	3.8	4.8
Terre Haute	76.2	75.2	76.0	4.4	3.3	3.3	5.8	4.4	4.3
<b>IOWA</b>	1,395.1	1,371.5	1,398.3	57.7	37.2	43.8	4.1	2.7	3.1
Cedar Rapids	80.2	79.2	80.8	3.1	2.4	2.9	3.9	3.0	3.6
Des Moines	165.9	164.3	166.4	7.7	5.1	5.4	4.6	3.1	3.3
Dubuque	42.3	42.3	43.1	2.2	1.7	2.0	5.3	4.1	4.5
Sioux City <sup>1</sup>	59.1	56.0	56.9	2.4	1.7	2.2	4.1	3.1	3.9
Waterloo—Cedar Falls	61.9	61.9	61.9	3.9	2.1	2.4	6.3	3.4	3.9
<b>KANSAS</b>	1,127.1	1,108.9	1,134.8	50.5	37.0	44.1	4.5	3.3	3.9
Topeka	87.0	85.9	88.1	4.5	2.9	3.7	5.1	3.4	4.2
Wichita	193.2	194.2	196.8	11.2	8.5	10.2	5.8	4.4	5.2
<b>KENTUCKY</b>	1,485.4	1,455.4	1,505.6	84.6	53.3	70.9	5.7	3.7	4.7
Lexington—Fayette	150.2	153.5	150.9	5.3	3.3	4.8	3.6	2.1	3.2
Louisville <sup>1</sup>	392.2	386.6	396.7	25.3	14.9	19.1	6.4	3.8	4.8
<b>LOUISIANA</b>	1,516.7	1,527.7	1,531.6	113.7	110.6	123.4	7.5	7.2	8.1
Baton Rouge	192.5	198.4	195.6	12.6	14.4	15.6	6.6	7.2	8.0
Lake Charles	60.6	63.3	61.6	5.2	5.8	6.0	8.6	9.2	9.7
Monroe	48.6	49.6	46.8	4.2	4.3	4.2	8.7	8.6	9.1
New Orleans	450.3	456.8	448.3	36.8	36.1	38.9	8.2	7.9	8.7
Shreveport	141.9	145.2	142.1	10.9	8.7	9.8	7.7	6.0	6.9
<b>MAINE</b>	488.1	482.6	500.5	40.7	38.7	41.1	8.3	8.0	8.2
Lewiston—Auburn	37.7	38.3	38.8	3.0	2.6	2.9	7.9	6.8	7.4
Portland	86.7	87.7	89.2	6.8	6.4	6.6	7.8	7.3	7.4
<b>MARYLAND</b>	1,926.9	1,921.1	1,943.6	129.0	101.9	109.7	6.7	5.3	5.6
Baltimore	975.5	968.9	977.3	77.5	62.4	66.6	7.9	6.4	6.8
<b>MASSACHUSETTS</b>	2,814.5	2,724.7	2,759.6	274.9	163.6	175.1	9.8	6.0	6.3
Boston	1,378.2	1,319.4	1,330.6	129.7	75.8	82.3	9.4	5.7	6.2
Brockton	76.9	75.2	76.5	8.5	5.2	5.9	11.1	7.0	7.7
Fall River <sup>1</sup>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Lawrence—Haverhill <sup>1</sup>	133.5	127.7	128.9	17.1	9.5	10.1	12.8	7.4	7.9
Lowell <sup>1</sup>	108.8	104.8	106.7	11.8	6.7	7.3	10.8	6.4	6.8
New Bedford	79.2	79.3	80.7	7.9	6.0	6.2	10.0	7.6	7.6
Springfield—Chicopee—Holyoke <sup>1</sup>	265.3	264.8	264.6	26.0	14.3	14.9	9.8	5.4	5.6
Worcester	193.3	187.7	190.8	18.1	9.4	10.4	9.4	5.0	5.5
<b>MICHIGAN</b>	4,046.6	4,078.5	4,120.2	377.3	267.4	279.4	9.3	6.6	6.8
Ann Arbor	125.1	129.9	129.4	10.5	6.8	7.0	8.4	5.3	5.4
Battle Creek	83.6	81.4	82.7	8.5	5.6	6.0	10.1	6.8	7.2
Bay City	52.2	52.4	53.6	5.4	3.6	3.8	10.3	6.8	7.2
Detroit	1,923.2	1,919.6	1,939.9	173.5	123.8	128.5	9.0	6.4	6.6
Flint	212.2	216.1	218.5	20.4	14.2	15.3	9.6	6.6	7.0

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

## E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P
<b>MICHIGAN—Continued</b>									
Grand Rapids .....	269.3	283.8	285.0	20.9	14.1	15.4	7.8	5.0	5.4
Jackson .....	66.7	65.1	66.0	6.4	4.4	4.6	9.6	6.7	6.9
Kalamazoo—Portage .....	127.6	129.0	130.1	9.8	6.5	7.2	7.7	5.1	5.5
Lansing—East Lansing .....	216.6	223.8	224.5	18.6	12.4	13.9	8.6	5.6	6.2
Muskegon—Norton Shores—Muskegon Heights .....	78.4	75.9	76.9	7.7	5.4	5.8	9.8	7.2	7.6
Saginaw .....	100.9	99.9	101.9	10.0	5.6	6.4	9.9	5.6	6.2
<b>MINNESOTA</b>	1,936.2	1,910.2	1,960.8	111.7	88.1	94.9	5.8	4.6	4.8
Duluth—Superior .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Minneapolis—St. Paul .....	1,035.5	1,031.6	1,045.3	71.3	51.8	55.9	6.9	5.0	5.3
<b>MISSISSIPPI</b>	968.6	980.1	990.6	69.8	55.1	63.7	7.2	5.6	6.4
Jackson .....	139.7	138.5	141.6	8.6	6.4	7.1	6.2	4.6	5.0
<b>MISSOURI</b>	2,161.8	2,169.6	2,192.6	137.7	102.2	112.4	6.4	4.7	5.1
Kansas City <sup>1</sup> .....	612.5	604.6	610.2	41.1	29.9	30.3	6.7	4.9	5.0
St. Joseph .....	46.2	46.2	47.2	2.7	2.2	2.6	5.9	4.7	5.6
St. Louis <sup>1</sup> .....	1,052.3	1,035.0	1,046.8	81.6	57.5	63.1	7.8	5.6	6.0
Springfield .....	92.6	96.8	98.0	4.6	3.6	4.1	4.9	3.8	4.2
<b>MONTANA</b>	342.4	N.A.	N.A.	22.3	N.A.	N.A.	6.5	N.A.	N.A.
Billings .....	50.8	N.A.	N.A.	2.7	N.A.	N.A.	5.4	N.A.	N.A.
Great Falls .....	34.9	N.A.	N.A.	2.6	N.A.	N.A.	7.4	N.A.	N.A.
<b>NEBRASKA</b>	747.3	730.7	751.0	25.6	14.7	19.2	3.4	2.0	2.6
Lincoln .....	98.3	102.3	103.5	3.3	1.6	2.1	3.4	1.5	2.0
Omaha <sup>1</sup> .....	258.9	258.2	264.0	15.0	8.3	10.9	5.8	3.2	4.1
<b>NEVADA</b>	310.5	319.3	327.3	26.4	21.7	23.0	8.5	6.8	7.0
Las Vegas .....	167.2	173.7	177.1	15.6	13.2	14.3	9.3	7.6	8.1
Reno .....	84.9	89.2	91.0	5.2	4.5	4.6	6.2	5.1	5.0
<b>NEW HAMPSHIRE</b>	395.7	N.A.	N.A.	25.4	N.A.	N.A.	6.4	N.A.	N.A.
Manchester .....	65.2	N.A.	N.A.	4.3	N.A.	N.A.	6.6	N.A.	N.A.
<b>NEW JERSEY</b>	3,384.9	3,334.1	3,390.3	360.3	299.6	302.5	10.6	9.0	8.9
Atlantic City .....	82.6	79.8	84.4	8.7	8.8	8.5	10.5	11.0	10.0
Jersey City .....	255.7	250.3	252.7	35.8	32.4	32.9	14.0	12.9	13.0
Long Branch—Asbury Park .....	212.1	210.8	219.5	20.8	18.7	19.2	9.8	8.9	8.8
Newark .....	944.8	921.2	928.2	102.7	79.1	78.4	10.9	8.6	8.5
New Brunswick—Perth Amboy—Sayreville .....	290.6	286.4	291.2	32.2	23.5	25.1	11.1	8.2	8.6
Paterson—Clifton—Passaic .....	206.6	208.4	208.1	26.3	23.8	22.8	12.7	11.4	11.0
Trenton .....	148.1	151.5	153.3	12.4	9.8	9.9	8.4	6.5	6.4
Vineland—Millville—Bridgeton .....	57.3	55.7	56.8	7.4	6.3	6.4	12.9	11.3	11.3
<b>NEW MEXICO</b>	480.0	482.4	496.6	46.7	37.0	40.6	9.7	7.7	8.2
Albuquerque .....	175.4	179.1	181.7	18.5	14.7	16.0	10.6	8.2	8.8
<b>NEW YORK</b>	7,868.5	7,579.5	7,642.3	828.6	628.9	638.3	10.5	8.3	8.4
Albany—Schenectady—Troy .....	367.3	354.9	359.0	30.9	25.2	26.3	8.4	7.1	7.3
Binghamton <sup>1</sup> .....	132.8	132.7	134.9	10.0	9.2	9.2	7.6	6.9	6.9
Buffalo .....	578.3	558.2	561.1	65.1	44.0	44.7	11.3	7.9	8.0
Elmira .....	41.9	40.4	40.5	4.0	4.1	4.2	9.6	10.1	10.4
Nassau—Suffolk .....	1,156.6	1,110.0	1,134.1	121.0	78.5	86.3	10.5	7.1	7.6
New York .....	3,705.6	3,539.2	3,537.5	413.5	309.2	305.8	11.2	8.7	8.6
Poughkeepsie .....	99.9	97.0	98.7	6.8	5.3	6.0	6.8	5.4	6.0
Rochester .....	463.3	450.7	455.4	39.8	31.0	32.7	8.6	6.9	7.2
Syracuse .....	290.1	284.9	288.0	29.5	22.5	23.3	10.2	7.9	8.1
Utica—Rome .....	142.1	137.4	138.9	15.2	13.3	13.0	10.7	9.7	9.4
<b>NORTH CAROLINA</b>	2,613.2	2,575.7	2,638.0	162.5	129.1	143.0	6.2	5.0	5.4
Asheville .....	80.3	77.8	81.9	4.7	3.4	3.6	5.9	4.4	4.4
Charlotte—Gastonia .....	316.7	314.3	320.9	18.7	12.0	15.3	5.9	3.8	4.8
Greensboro—Winston-Salem—High Point .....	401.8	396.9	405.3	24.4	17.8	20.1	6.1	4.5	5.0
Raleigh—Durham .....	254.4	250.9	258.9	12.3	8.6	10.9	4.8	3.4	4.2
<b>NORTH DAKOTA</b>	293.3	303.7	310.2	10.5	10.2	12.0	3.6	3.4	3.9
Fargo—Moorhead <sup>1</sup> .....	65.5	66.8	68.0	2.0	1.6	2.0	3.1	2.4	3.0

See footnotes at end of table.



STATE AND AREA UNEMPLOYMENT DATA

E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P
<b>OHIO</b> .....	4,827.9	4,796.8	4,855.8	379.3	284.5	304.1	7.9	5.9	6.3
Akron .....	298.1	292.6	296.1	26.0	18.2	18.8	8.7	6.2	6.3
Canton .....	176.8	177.3	178.6	15.6	12.2	11.6	8.8	6.9	6.5
Cincinnati <sup>1</sup> .....	595.4	593.6	599.4	52.4	41.1	45.1	8.8	6.9	7.5
Cleveland .....	907.1	895.3	905.7	63.5	49.3	52.8	7.0	5.5	5.8
Columbus .....	512.1	512.9	520.6	36.5	26.5	30.6	7.1	5.2	5.9
Dayton .....	369.2	368.2	373.6	25.2	18.1	19.8	6.8	4.9	5.3
Toledo <sup>1</sup> .....	356.3	361.6	364.4	27.8	23.2	23.9	7.8	6.4	6.6
Youngstown—Warren .....	239.5	233.3	236.8	23.6	15.3	17.1	9.9	6.6	7.2
<b>OKLAHOMA</b> .....	1,178.4	1,209.7	1,233.3	68.0	57.2	63.3	5.8	4.7	5.1
Oklahoma City .....	349.2	361.3	368.6	20.5	16.1	17.7	5.9	4.5	4.8
Tulsa .....	285.3	287.4	293.7	15.9	12.7	15.3	5.6	4.4	5.2
<b>OREGON</b> .....	1,097.4	1,090.4	1,118.7	102.0	90.9	91.9	9.3	8.3	8.2
Eugene—Springfield .....	115.0	116.7	120.3	12.1	10.2	11.1	10.5	8.7	9.3
Portland <sup>1</sup> .....	526.5	528.0	540.0	46.8	38.6	39.3	8.9	7.3	7.3
Salem .....	99.2	98.2	100.5	9.1	8.3	8.3	9.2	8.4	8.3
<b>PENNSYLVANIA</b> .....	5,191.1	5,095.5	5,142.0	406.5	323.6	332.0	7.8	6.3	6.5
Allentown—Bethlehem—Easton <sup>1</sup> .....	303.7	299.2	301.3	20.2	16.7	15.5	6.6	5.6	5.1
Altoona .....	57.4	58.0	58.7	3.9	3.0	3.3	6.9	5.2	5.7
Erie .....	122.6	121.7	123.1	10.6	7.3	7.8	8.7	6.0	6.4
Harrisburg .....	210.6	211.6	213.8	10.9	8.9	9.4	5.2	4.2	4.4
Johnstown .....	108.2	107.6	110.2	7.0	4.9	5.0	6.5	4.6	4.5
Lancaster .....	164.4	163.8	164.4	8.2	6.1	6.5	5.0	3.7	3.9
Northeast Pennsylvania .....	279.4	273.2	274.4	24.5	21.1	20.0	8.8	7.7	7.3
Philadelphia <sup>1</sup> .....	2,057.2	2,016.0	2,033.3	186.2	152.0	158.6	9.0	7.5	7.8
Pittsburgh .....	1,014.4	984.8	994.7	83.2	66.0	68.3	8.2	6.7	6.9
Reading .....	147.6	146.7	147.3	9.8	7.6	7.5	6.6	5.2	5.1
Williamsport .....	50.5	49.9	50.6	4.4	3.6	3.5	8.7	7.2	7.0
York .....	160.2	158.9	160.2	10.5	7.5	7.7	6.6	4.7	4.8
<b>RHODE ISLAND</b> .....	432.1	433.3	437.1	34.3	28.6	29.2	7.9	6.6	6.7
Providence—Warwick—Pawtucket <sup>1</sup> .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>SOUTH CAROLINA</b> .....	1,299.1	1,275.5	1,306.4	96.6	63.8	73.0	7.4	5.0	5.6
Charleston—North Charleston .....	144.0	141.4	144.8	11.6	7.5	9.1	8.0	5.3	6.3
Columbia .....	158.4	162.5	163.0	10.5	7.1	7.7	6.6	4.3	4.7
Greenville—Spartanburg .....	251.1	246.9	249.2	16.0	10.7	12.4	6.4	4.3	5.0
<b>SOUTH DAKOTA</b> .....	332.0	328.5	347.4	11.8	8.9	12.3	3.6	2.7	3.5
Sioux Falls .....	56.8	54.7	60.1	1.7	1.3	1.7	3.0	2.3	2.9
<b>TENNESSEE</b> .....	1,847.4	1,871.6	1,903.4	111.7	88.5	107.2	6.0	4.7	5.6
Chattanooga <sup>1</sup> .....	178.5	179.6	182.4	10.0	8.5	10.2	5.6	4.7	5.6
Knoxville .....	193.6	195.9	199.1	9.9	7.9	9.5	5.1	4.0	4.8
Memphis <sup>1</sup> .....	362.6	361.6	369.2	23.8	17.8	22.3	6.6	4.9	6.0
Nashville—Davidson .....	366.2	372.7	380.3	20.3	13.0	16.2	5.5	3.5	4.3
<b>TEXAS</b> .....	5,658.2	5,692.9	5,753.3	360.9	274.0	313.4	6.4	4.8	5.4
Amarillo .....	84.1	83.6	85.2	3.5	2.6	3.0	4.1	3.1	3.5
Austin .....	197.3	198.8	201.2	11.1	7.2	9.4	5.6	3.6	4.7
Beaumont—Port Arthur—Orange .....	166.9	161.1	164.0	13.2	11.1	12.4	7.9	6.9	7.5
Corpus Christi .....	130.8	131.0	131.7	9.4	8.6	9.6	7.2	6.6	7.3
Dallas—Fort Worth .....	1,271.1	1,290.0	1,301.5	65.1	44.9	50.9	5.1	3.5	3.9
El Paso .....	162.6	161.3	163.5	15.7	18.4	20.2	9.7	11.4	12.4
Galveston—Texas City .....	87.1	89.5	92.9	6.5	5.9	7.7	7.5	6.6	8.3
Houston .....	1,176.3	1,226.6	1,242.0	76.4	59.2	65.2	6.5	4.8	5.3
Lubbock .....	93.7	97.9	97.9	4.3	2.8	3.6	4.6	2.9	3.7
San Antonio .....	401.1	386.5	396.6	38.0	25.6	32.2	9.5	6.6	8.1
Waco .....	76.1	75.0	76.4	4.9	3.1	4.2	6.5	4.1	5.5
Wichita Falls .....	57.9	58.4	58.9	2.9	2.1	2.3	5.0	3.7	3.9
<b>UTAH</b> .....	524.2	523.9	541.9	30.6	24.3	28.2	5.8	4.6	5.2
Salt Lake City—Ogden .....	345.0	347.8	356.4	20.4	15.8	18.7	5.9	4.5	5.2
<b>VERMONT</b> .....	218.7	217.4	220.8	20.3	15.7	16.0	9.3	7.2	7.2

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

## E-1. Labor force and unemployment by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P	JUN. 1976	MAY. 1977R	JUN. 1977P
<b>VIRGINIA</b> .....	2,365.2	2,374.0	2,416.9	144.0	125.5	134.3	6.1	5.3	5.6
Lynchburg .....	69.6	70.9	72.6	4.1	3.0	3.7	5.9	4.3	5.1
Newport News—Hampton .....	158.2	161.5	164.0	11.2	9.2	10.5	7.1	5.7	6.4
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	313.0	313.2	322.1	22.5	19.3	21.4	7.2	6.2	6.6
Richmond .....	311.1	314.4	320.5	15.6	13.5	14.8	5.0	4.3	4.6
Roanoke .....	111.2	111.0	113.4	6.4	6.2	6.1	5.8	5.6	5.4
<b>WASHINGTON</b> .....	1,645.8	1,630.4	1,672.6	140.5	113.0	119.1	8.5	6.9	7.1
Seattle—Everett .....	716.1	726.1	738.1	65.3	49.1	49.4	9.1	6.8	6.7
Spokane .....	133.1	128.3	130.7	9.8	7.6	8.8	7.4	5.9	6.7
Tacoma .....	159.9	158.4	162.0	15.0	11.6	12.3	9.4	7.3	7.6
<b>WEST VIRGINIA</b> .....	686.1	685.8	693.9	49.3	39.5	40.5	7.2	5.8	5.8
Charleston .....	109.0	108.1	109.7	5.8	4.2	4.6	5.3	3.9	4.2
Huntington—Ashland <sup>1</sup> .....	111.9	110.4	110.9	7.6	5.8	6.2	6.8	5.3	5.6
Parkersburg—Marietta <sup>1</sup> .....	63.6	64.1	63.1	6.3	3.4	3.5	9.8	5.3	5.5
Wheeling <sup>1</sup> .....	75.4	77.0	76.8	5.1	3.8	3.4	6.7	5.0	4.4
<b>WISCONSIN</b> .....	2,219.4	2,228.8	2,280.0	121.0	92.7	105.2	5.5	4.2	4.6
Appleton—Oshkosh .....	142.5	142.0	145.9	6.9	4.9	5.8	4.8	3.5	4.0
Green Bay .....	86.5	86.7	89.8	4.7	3.5	3.9	5.5	4.0	4.3
Kenosha .....	64.5	63.0	64.8	3.9	2.8	3.4	6.1	4.5	5.2
La Crosse .....	42.2	44.0	44.4	2.0	1.7	1.8	4.7	3.9	4.1
Madison .....	171.5	177.4	178.4	6.6	5.0	5.8	3.8	2.8	3.3
Milwaukee .....	697.7	686.5	697.7	45.9	33.4	36.4	6.6	4.9	5.2
Racine .....	90.6	90.6	93.4	5.8	3.6	3.9	6.5	4.0	4.2
<b>WYOMING</b> .....	192.1	189.3	205.2	7.4	6.1	7.1	3.9	3.2	3.5

<sup>1</sup> Includes interstate portion of Area located in adjacent State(s).

NOTE: All data are subject to revision as new benchmark information becomes available. Estimates have been benchmark to 1976 Current Population Survey annual averages. Data refer to place of residence.

p=preliminary.  
r=revised  
N.A.=not available.

SOURCE: Cooperating State Employment Security Agencies listed on inside back cover.

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161. When ordering please, specify "CETA Area Employment and Unemployment, January-April 1977 (NTISUB/C/143-77/006)", "States and County Employment and Unemployment January-April 1977" (NTISUB/C/144-77/006) or "Unemployment Rates for States and Local Governments, First Quarter, 1977" (PB267950). Tabulations are available at \$8.00 per set for printed copies of CETA Areas, \$13.75 for States and Counties, \$6.00 for States and Local Governments, or \$3.00 per set for microfiche copies of each publication.

# **Explanatory Notes**

## **Introduction**

### **Household Data (A tables)**

### **Establishment Data (B, C, and D tables)**

### **State and Area Unemployment Data (E table)**

### **Seasonal Adjustment**

# Introduction

The statistics in this periodical are compiled from two major sources: (1) Household interviews, and (2) reports from employers.

*Data based on household interviews* are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed and the unemployed, including such characteristics as age, sex, race, household relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 47,000 households, representing 461 areas in 923 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide detailed industry information on nonagricultural wage and salary employment, average weekly hours, average hourly and weekly earnings, and labor turnover for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of establishments employing over 30 million nonagricultural wage and salary workers. The data relate to all workers, full- or part-time, who received pay during the payroll period which includes the 12th of the month. Based on a somewhat smaller sample, labor turnover data relate to actions occurring during the entire month.

## RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

The household and establishment data supplement one another, each providing significant types of information that the other cannot suitably supply. Population characteristics, for example, are readily obtained only from the household survey whereas detailed industrial classifications can be reliably de-

ived only from establishment reports.

Data from these two sources differ from each other because of differences in definition and coverage, sources of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which have a differential effect on levels and trends of the two series are as follows.

### Employment

*Coverage.* The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of nonagricultural establishments.

*Multiple jobholding.* The household approach provides information on the work status of the population without duplication, since each person is classified as employed, unemployed, or not in the labor force. Employed persons holding more than one job are counted only once and are classified according to the job at which they worked the greatest number of hours during the survey week. In the figures based on establishment records, persons who worked in more than one establishment during the reporting period are counted each time their names appear on payrolls.

*Unpaid absences from jobs.* The household survey includes among the employed all persons who had jobs but were not at work during the survey week—that is, were not working but had jobs from which they were temporarily absent because of illness, bad weather, vacation, labor-management dispute, or because they were taking time off for various other reasons, even if they were not paid by their employers for the time off. In the figures based on payroll reports, persons on leave paid for by the company are included, but not those on leave without pay for the entire payroll period.

For a comprehensive discussion of the differences between household and establishment survey employment data, see Gloria P. Green's article "Comparing Employment Estimates from Household and Payroll Surveys," *Monthly Labor Review*, December 1969. Reprints of this article are available upon request from the Bureau of Labor Statistics.

### Hours of work

The household survey measures hours actually worked whereas the payroll survey measures hours paid for by em-

ployers. In the household survey data, all persons with a job but not at work are excluded from the hours distributions and the computations of average hours. In the payroll survey, employees on paid vacation, paid holiday, or paid sick leave are included and assigned the number of hours for which they were paid during the reporting period.

### COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

*Unemployment insurance data.* The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, regardless of whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (agriculture, some State and local government, domestic service, self-employment, unpaid family work, and religious organizations).

In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used in the household survey. For example, persons with a job but not at work and persons working only a few hours during the week are sometimes eligible for unemployment compensation but are classified as employed rather than unemployed in the household survey.

For an examination of the similarities and differences between State insured unemployment and total unemployment, see "Measuring Total and State Insured Unemployment" by Gloria P. Green in the June 1971 issue of the *Monthly Labor Review*. Reprints of this article may be obtained upon request.

*Agricultural employment estimates of the Department of Agriculture.* The principal differences in coverage are the inclusion of persons under 16 in the Statistical Research Service (SRS) series and the treatment of dual jobholders who are counted more than once if they work on more than one farm during the

reporting period. There are also wide differences in sampling techniques and collecting and estimating methods, which cannot be readily measured in terms of impact on differences in level and trend of the two series.

### COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

*Statistics on manufactures and business, Bureau of the Census.* BLS establishment statistics on employment differ from employment counts derived by the Bureau of the Census from its censuses or annual sample surveys of manufacturing establishments and the censuses of business establishments. The major reasons for some noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in BLS statistics.

*County Business Patterns.* Data in County Business Patterns (CBP), published by the Bureau of the Census, U.S. Department of Commerce, differ from BLS establishment statistics in the treatment of central administrative offices and auxiliary units. Differences may also arise because of industrial classification and reporting practices. In addition, CBP excludes interstate railroads and government, and coverage is incomplete for some of the nonprofit activities.

*Employment covered by State unemployment insurance programs.* Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. Beginning in January 1972, coverage was expanded to include employees of small firms and selected nonprofit activities who had not been covered previously. However, certain activities, such as interstate railroads, parochial schools, churches and most local government activities are not covered by unemployment insurance whereas these are included in BLS establishment statistics.

## Household data

(A tables)

### COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics derived from the Current Population Survey*, BLS Report 463. This report is available from BLS on request.

These monthly surveys of the population are conducted with a scientifically selected sample designed to represent the civilian noninstitutional population. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. Separate statistics are also collected and published for 14 and 15 year olds. The inquiry relates to activity or status during the calen-

dar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

Inmates of institutions, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumerations and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are included as part of the categories "total noninstitutional population" and "total labor force," are obtained from the Department of Defense.

Each month, 47,000 occupied units are eligible for interview. About 2,000 of these households are visited but interviews are not obtained because the occupants are not found at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of about 4 percent. In addition to the 47,000 occupied units, there are 8,000 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of

the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next, and one-half to be common with the same month a year earlier.

## CONCEPTS

*Employed persons* comprise (a) all those who during the survey week did any work at all as paid employees, in their own business, profession, or farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family, and (b) all those who were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management dispute, or personal reasons, whether or not they were paid by their employers for the time off, and whether or not they were seeking other jobs.

Each employed person is counted only once. Those who held more than one job are counted in the job at which they worked the greatest number of hours during the survey week.

Included in the total are employed citizens of foreign countries, temporarily in the United States, who are not living on the premises of an Embassy.

Excluded are persons whose only activity consisted of work around the house (such as own home housework, and painting or repairing own home) or volunteer work for religious, charitable, and similar organizations.

*Unemployed persons* comprise all persons who did not work during the survey week, who made specific efforts to find a job within the past 4 weeks, and who were available for work during the survey week (except for temporary illness). Also included as unemployed are those who did not work at all, were available for work, and (a) were waiting to be called back to a job from which they had been laid off; or (b) were waiting to report to a new wage or salary job within 30 days.

Duration of unemployment represents the length of time (through the current survey week) during which persons classified as unemployed had been continuously looking for work. For persons on layoff, duration of unemployment represents the number of full weeks since the termination of their most recent employment. A period of 2 weeks or more during which a person was employed or ceased looking for work is considered to break the continuity of the present period of seeking work. Average duration is an arithmetic mean computed from a distribution by single weeks of unemployment.

Unemployed persons by reasons for unemployment are divided into four major groups. (1) Job losers are persons whose employment ended involuntarily who immediately began looking for work and persons on layoff. (2) Job leavers are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) Re-entrants are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) New entrants are persons who never worked at a full-time job lasting 2 weeks or longer.

Jobseekers are all unemployed persons who made specific efforts to find a job, sometime during the 4-week period preceding the survey week. Jobseekers do not include persons unemployed because they (a) were waiting to be called back to a job from which they had been laid off or (b) were waiting to report to a new wage or salary job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some "other" method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community

organization, or waiting at a designated pick-up point.

*The civilian labor force* comprises the total of all civilians classified as employed or unemployed in accordance with the criteria described above. The "total labor force" also includes members of the Armed Forces stationed either in the United States or abroad.

*The unemployment rate* represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, marital status, race, etc. The job-loser, job-leaver, reentrant, and new entrant rates are each calculated as a percent of the civilian labor force; the sum of the rates for the four groups thus equals the total unemployment rate.

*Participation rates* represent the proportion of the noninstitutional population that is in the labor force. Two types of participation rates are published: The total labor force participation rate, which is the ratio of the total labor force and the total noninstitutional population; and the civilian labor force participation rate, which is the ratio of the civilian labor force and the civilian noninstitutional population. Participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.

*Not in labor force* includes all civilians 16 years and over who are not classified as employed or unemployed. These persons are further classified as "engaged in own home housework," "in school," "unable to work" because of long-term physical or mental illness, and "other." The "other" group includes for the most part retired persons, those reported as too old to work, the voluntarily idle, and seasonal workers for whom the survey week fell in an "off" season and who were not reported as unemployed. Persons doing only incidental unpaid family work (less than 15 hours) are also classified as not in the labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work again, desire for a job at the time of interview, and reasons for not looking for work are compiled on a quarterly basis. As of January 1970, the detailed questions for persons not in the labor force are asked only in those households that are in the fourth and eighth months of the sample, i.e., the "outgoing" groups, those which had been in the sample for 3 previous months and would not be in for the subsequent month. Between 1967 and 1969, the detailed not-in-labor force questions were asked of persons in the first and fifth months in the sample, i.e., the "incoming" groups.

*Occupation, industry, and class of worker* for the employed apply to the job held in the survey week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours during the survey week. The unemployed are classified according to their last full-time civilian job lasting 2 weeks or more. The occupation and industry groups used in data derived from the CPS household interviews are defined as in the 1970 Census of Population. Information on the detailed categories included in these groups is available upon request.

The class-of-worker breakdown specifies "wage and salary workers," subdivided into private and government workers, "self-employed workers," and "unpaid family workers." Wage and salary workers receive wages, salary, commission, tips, or pay in kind from a private employer or from a government unit. Self-employed persons are those who work for profit or fees in their own business, profession, or trade, or operate a farm. Unpaid family workers are persons working without pay for 15 hours a week or more on a farm or in a business operated by a member of the household to whom they are related by blood or marriage.

*Hours of work* statistics relate to the actual number of hours worked during the survey week. For example, a person who

normally works 40 hours a week but who was off on the Columbus Day holiday would be reported as working 32 hours even though he was paid for the holiday.

For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week. However, all the hours are credited to the major job.

The distribution of employment by hours worked relate to persons "at work" during the survey week. At work data differ from data on total employment because the latter include persons in zero-hours worked category, "with a job but not at work." Included in this latter group are persons who were on vacation, ill, involved in a labor dispute, or otherwise absent from their jobs for voluntary, noneconomic reasons.

Persons who worked 35 hours or more in the survey week are designated as working "full time," persons who worked between 1 and 34 hours are designated as working "part-time." Part-time workers are classified by their usual status at their present job (either full time or part time) and by their reason for working part time during the survey week (economic or other reasons). "Economic reasons" include: Slack work, material shortages, repairs to plant or equipment, start or termination of job during the week, and inability to find full-time work. "Other reasons" include: Labor dispute, bad weather, own illness, vacation, demands of home housework, school, no desire for full-time work, and full-time worker only during peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1-34 hours for noneconomic reasons and usually work full time.

*Full- and part-time labor force.* The *full-time labor force* consists of persons working on full-time schedules, persons involuntarily working part time (part time for economic reasons), and unemployed persons seeking full-time jobs. The *part-time labor force* consists of persons working part time voluntarily and unemployed persons seeking part-time work. Persons with a job but not at work during the survey week are classified according to whether they usually work full or part time.

*Labor force time lost* is a measure of aggregate hours lost to the economy through unemployment and involuntary part-time employment and is expressed as a percent of potentially available aggregate hours. It is computed by assuming: (1) That unemployed persons looking for full-time work lost an average of 37.5 hours, (2) that those looking for part-time work lost the average number of hours actually worked by voluntary part-time workers during the survey week, and (3) that persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

*Race.* White and black and other are terms used to describe the race of workers. The black and other category, which until recently had been identified as "Negro and other races" and prior to 1969 as "nonwhite," includes all persons who are observed in the enumeration process to be other than white. At the time of the 1970 Census of Population, 89 percent of the black and other population group were black; the remainder were American Indians, Eskimos, Orientals, and all other non-white groups. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

*Spanish origin* refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American or other Spanish origin or descent. According to the 1970 Census, approximately 96 percent of their population is white.

*Major activity:* going to school and major activity: *other* are terms used to describe whether the activity of young persons during the reference week are primarily one of going to school or not. Statistics on major activities are published every month in table A-7 for 16-21 year-olds by employment status, race,

sex, and, if unemployed, whether seeking full- or part-time work.

*Household head.* One person in each household is designated as the head. The head is usually the person regarded as the head by the members of the group. If a husband and wife family occupy the unit, the husband is designated as the head. The number of heads is equal to the number of households.

*Vietnam-era veterans* are those who served in the Armed Forces of the United States between August 5, 1964, and **May 7, 1975**. Tables for veterans in this volume are limited to males in the civilian noninstitutional population; i.e., veterans in institutions and females are excluded.

*Nonveterans* are males who never served in the Armed Forces.

*Poverty areas classification* consists of all Census geographical divisions in which 20 percent or more of the residents were poor according to the 1970 Decennial Census. Persons were classified as poor or nonpoor by using income thresholds adopted by a Federal interagency committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas and, conversely, the areas include many people who are not poor.

## HISTORIC COMPARABILITY

### Raised lower age limit

Beginning with data for 1967, the lower age limit for official statistics on persons in the labor force was raised from 14 to 16 years. At the same time, several definitions were sharpened to clear up ambiguities. The principal definitional changes were: (1) Counting as unemployed only persons who were currently available for work and who had engaged in some specific job-seeking activity within the past 4 weeks, an exception to the latter condition is made for persons waiting to start a new job in 30 days or waiting to be recalled from layoff; in the past, the current availability test was not applied and the time period for jobseeking was ambiguous; (2) counting as employed persons who were absent from their jobs in the survey week because of strikes, bad weather, etc. and were also looking for other jobs; previously, these persons had been classified as unemployed; (3) sharpening the questions on hours of work, duration of unemployment, and self-employment in order to increase their reliability.

These changes did not affect the unemployment rate by more than one-fifth of a percentage point in either direction, although the distribution of unemployment by sex was affected. The number of employed was reduced about 1 million because of the exclusion of 14- and 15-year-olds. For persons 16 years and over, the only employment series appreciably affected were those relating to hours of work and class of worker. A detailed discussion of the changes and their effect on the various series is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints may be obtained upon request.

### Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and

agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force, four-fifths of this in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged. In addition, beginning 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of about 800,000; labor force and employment totals were raised by a little more than 300,000, and unemployment levels and rates were essentially unchanged. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black and other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black and other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

Beginning in January 1974, the methodology used to prepare independent estimates of the civilian noninstitutional population was modified to an "inflation-deflation" approach. This change in the derivation of the population estimates had its greatest impact on estimates of 20-24 year-old males—particularly those of the black and other population—but had little effect on 16 and over totals. Additional information on the adjustment procedure appears in "CPS Population Controls Derived from Inflation-Deflation Method of Estimation" in the February 1974 issue of *Employment and Earnings*.

Effective July 1975, as a result of the immigration of Vietnamese refugees into the United States, the total and black-and-other independent population controls for persons 16 years and over were adjusted upward by 76,000—30,000 males and 46,000 females. The addition of the refugees increased the black-and-other population by less than 1 percent in any age-sex group, and all of the changes were in the "other" population.

### Changes in occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational classifications introduced into the Current Population Survey (CPS). These changes stemmed from an exhaustive review of the classification system to be used for the 1970 Census of Population. This review, the most comprehensive since the 1940 census, was to reduce the size of large groups, to be more specific about general and "not elsewhere classified" groups, and to provide information on emerging significant occupations. Differences in March 1970 employment levels tabulated on both the 1960 and 1970 classification systems ranged from a drop of 650,000 in operatives to an increase of 570,000 in service workers, much of which resulted from a shift between these two groups; the nonfarm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

An additional major group was created by splitting the operatives category into two: operatives, except transport, and transport equipment operatives. Separate data for these two groups first became available in January 1972. At the same time, several changes in titles, as well as in order of presenta-

tion, were introduced; for example, the title of the managers, officials, and proprietors group was changed to "managers and administrators, except farm," since only proprietors performing managerial duties are included in the category.

Apart from the effects of revisions in the occupation classification system beginning in 1971, comparability of occupational employment data was further affected in December 1971, when a question eliciting information on major activities or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. This change resulted in several dramatic occupational shifts, particularly from managers and administrators to other groups. Thus, meaningful comparisons of occupational levels cannot always be made for 1972 and subsequent years with earlier periods. However, revisions in the occupational classification system as well as in the CPS questionnaire are believed to have had but a negligible impact on unemployment rates.

Additional information on changes in the occupational classification system of the CPS appears in "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of *Employment and Earnings*.

### ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. There are no subsequent adjustments to independent benchmark data on labor force, employment, or unemployment. Therefore, revisions of the historical data are not an inherent feature of this statistical program.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas and, within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are standard metropolitan statistical areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 3 to 5 percent depending on weather, vacations, etc.

2. *Ratio estimates.* The distribution of the population selected for the sample may differ somewhat, by chance, from that of the Nation as a whole, in such characteristics as age, race, sex, and residence. Since these population characteristics are closely correlated with labor force participation and other principal measurements made from the sample, the latter estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:

a. *First-stage ratio estimate.* This is a procedure in which the sample proportions are weighted by the known 1970 Census data on the race-residence distribution of the population. This step takes into account the differences existing at the time of the 1970 census between the race-residence distribution for the Nation and for the sample areas.

b. *Second-stage ratio estimate.* In this step, the sample pro-



portions are applied to independent current estimates of the population by age, sex, and race. Prior to January 1974 these estimates were prepared by carrying forward the most recent census data (1970) after taking account of subsequent aging of the population, births, deaths, and migration between the United States and other countries.

Beginning in 1974, the "inflation-deflation" method of deriving independent population controls was introduced into the CPS estimation procedures. In this procedure, the most recent census population adjusted to include estimated net census undercount by age, sex, and race (i.e., "inflated") is carried forward to each subsequent month and later age by adding births, subtracting deaths, and adding net migration. These postcensal population estimates are then "deflated" to census level to reflect the pattern of net undercount in the most recent census by age, sex, and race. The actual percent change over time in the population in any age group is preserved.

3. *Composite estimate procedure.* In deriving statistics for a given month, a composite estimating procedure is used which takes account of net changes from the previous month for continuing parts of the sample (75 percent) as well as the sample results for the current month. This procedure reduces the sampling variability of month-to-month changes especially and of the levels for most items also.

#### Rounding of estimates

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals and components to the nearest thousand. Differences, however, are insignificant.

#### Reliability of the estimates

Since the estimates are based on a sample, they may differ from the figures that would have been obtained if it were possible to take a complete census using the same schedules and procedures.

The standard error is a measure of sampling variability, that is, the variations that might occur by chance because only a sample of the population is surveyed. The chances are about 2 out of 3 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 19 out of 20 that the difference would be less than twice the standard error.

Table A shows the average standard error for the major employment status categories, by sex, computed from data for past months. Estimates of change derived from the survey are also subject to sampling variability. The standard error of change for consecutive months is also shown in table A. The standard errors of level shown in table A are acceptable approximations of the standard errors of year-to-year change.

The figures presented in table B are to be used for other characteristics and are approximations of the standard errors of all such characteristics. They should be interpreted as providing an indication of the order of magnitude of the standard errors rather than as the precise standard error for any specific item.

The standard error of the change in an item from one month to the next month is more closely related to the standard error of the monthly level for that item than to the size of the specific month-to-month change itself. Thus, in order to use the approximations to the standard errors of month-to-month changes as presented in table C, it is first necessary to obtain the standard error of the monthly level of the item in table B, and then find

**Table A. Average standard error of major employment status categories**

(In thousands)

Employment status and sex	Average standard error of —	
	Monthly level	Month-to-month change (consecutive months only)
<b>BOTH SEXES</b>		
Labor force .....	205	150
Total employment .....	210	155
Agriculture .....	95	60
Nonagricultural employment .....	210	155
Unemployment .....	109	106
<b>MALES</b>		
Labor force .....	115	95
Total employment .....	125	100
Agriculture .....	85	55
Nonagricultural employment .....	130	105
Unemployment .....	81	89
<b>FEMALES</b>		
Labor force .....	140	110
Total employment .....	140	110
Agriculture .....	35	25
Nonagricultural employment .....	140	110
Unemployment .....	74	83

**Table B. Standard error of level of monthly estimates**

(In thousands)

Size of estimate	Both sexes		Males		Females	
	Total or white	Black and other	Total or white	Black and other	Total or white	Black and other
10 .....	4	4	6	4	6	4
50 .....	9	9	11	9	11	9
100 .....	12	12	16	12	16	12
250 .....	20	17	25	17	25	17
500 .....	30	25	34	25	34	25
1,000 .....	40	35	50	35	50	35
2,500 .....	60	40	75	40	75	40
5,000 .....	85	45	90	—	90	—
10,000 .....	115	—	115	—	115	—
20,000 .....	150	—	125	—	125	—
30,000 .....	170	—	—	—	—	—
40,000 .....	180	—	—	—	—	—

the standard error of the month-to-month change in table C corresponding to this standard error of level. It should be noted that table C applies to estimates of change between 2 consecutive months. For changes between the current month and the same month last year, the standard errors of level shown in table B are acceptable approximations.

*Illustration.* Assume that the tables showed the total number of persons working a specific number of hours as 15,000,000, an increase of 500,000 over the previous month. Linear interpolation in the first column of table B shows that the standard error of 15,000,000 is about 133,000. Consequently, the chances are about 68 out of 100 that the sample estimate differs by less than 133,000 from the figure which would have been obtained from a complete count of the number of persons working the given number of hours. Using the 133,000 as the standard error of the monthly level in table C, it may be seen that the standard error of the 500,000 increase is about 126,000.

The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the percentage and the size of the total

**Table C. Standard error of estimates of month-to-month change**

(In thousands)

Standard error of monthly level	Standard error of month-to-month change
10	12
25	28
50	55
100	100
150	140
200	155
250	160
300	190

upon which the percentage is based. Where the numerator is a subclass of the denominator, estimated percentages are relatively more reliable than the corresponding absolute estimates of the numerator of the percentage, particularly if the percentage is large (50 percent or greater). Table D shows the standard errors for unemployment percentages derived from the survey. Linear interpolation may be used for percentages and base figures not shown in table D. As a general rule, percentages will not be published when the monthly base is less

**Table D. Standard error of unemployment percentages**

Base of percentages (thousands)	Estimated percentage								
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	35 or 65	50
75	1.5	2.1	3.2	4.5	5.4	6.1	6.7	7.5	8.3
150	1.1	1.5	2.4	3.3	4.0	4.5	4.9	5.5	6.1
250	9	1.3	2.0	2.8	3.3	3.7	4.1	4.6	5.1
500	6	8	1.3	1.7	2.1	2.4	2.6	2.9	3.2
1,000	4	6	9	1.2	1.5	1.7	1.8	2.1	2.3
2,000	3	4	6	9	1.0	1.2	1.3	1.5	1.6
3,000	2	3	5	7	9	1.0	1.1	1.2	1.3
5,000	2	3	4	6	7	7	8	9	1.0
10,000	1	2	3	4	5	5	6	7	7
25,000	1	1	2	3	3	3	4	4	4
50,000	1	1	1	2	2	2	3	3	3
75,000	1	1	1	1	2	2	2	2	3

than 75,000 or the annual base is less than 35,000. Table E shows the standard error of percentage of monthly levels and consecutive month change for frequently analyzed unemployment rate series. These errors are computed from data for recent months. Errors on change for nonconsecutive months are slightly greater (by roughly a factor of 1.1 times the month-to-month error).

**Table E. Standard error of percentages for major unemployment rates**

Selected categories	Monthly level	Consecutive month change	Selected categories	Monthly level	Consecutive month change
Total (all civilian workers)	.12	.14	<b>OCCUPATION - Continued</b>		
Males, 20 years and over	.14	.17	Blue-collar workers	.23	.28
Females, 20 years and over	.19	.24	Craft and kindred workers	.32	.39
Both sexes, 16-19 years	.56	.72	Operatives	.36	.46
White workers	.12	.15	Nonfarm laborers	.66	.84
Black (and other) workers	.43	.55	Service workers	.32	.40
Household heads	.12	.15	Farm workers	.43	.53
Married men	.13	.16	<b>INDUSTRY</b>		
Full-time workers	.12	.15	Nonagricultural private wage and salary workers	.14	.17
Part-time workers	.35	.44	Construction	.75	.95
Unemployed 15 weeks and over	.06	.07	Manufacturing	.27	.34
Labor force time lost	.12	.15	Durable goods	.36	.45
<b>OCCUPATION</b>			Nondurable goods	.43	.54
White-collar workers	.13	.15	Transportation and public utilities	.41	.52
Professional and technical	.20	.24	Wholesale and retail trade	.28	.35
Managers and administrators			Finance and service industries	.23	.29
except farm	.23	.28	Government wage and salary workers	.19	.24
Sales workers	.39	.48	Agricultural wage and salary workers	1.11	1.39
Clerical workers	.24	.30			

## Establishment data

(B, C, and D tables)

### COLLECTION

Payroll reports provide current information on wage and salary employment, hours, earnings, and labor turnover in non-agricultural establishments, by industry and geographic location.

### Federal-State cooperation

Under cooperative arrangements with State agencies, the respondent fills out a single employment or labor turnover reporting form, which is then used for national, State, and area estimates. This eliminates duplicate reporting on the part of respondents, and together with the use of identical techniques at the national and State levels, insures maximum comparability of estimates.

State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the information to prepare State and area series and then send the establishment data to the BLS for use in preparing the national series.

### Shuttle schedules

Two types of data collection schedules are used: Form BLS 790—Monthly Report on Employment, Payroll, and Hours; and Form DL 1219—Monthly Report on Labor Turnover. These schedules are of the "shuttle" type, with space for each month of the calendar year. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered. This procedure assures maximum comparability

and accuracy of reporting, since the respondent can see the figures he has reported for previous months.

Form BLS 790 provides for entry of data on the number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, payroll and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month. Form DL 1219 provides for the collection of information on the total number of accessions and separations, by type, during the calendar month.

## CONCEPTS

### Industrial classification

Establishments reporting on Form BLS 790 and Form DL 1219 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. This information is collected each year on a supplement to the monthly 790 or 1219 report. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the most important product or activity.

All data on employment, hours, earnings, and labor turnover for the Nation and for a few States and areas are classified in accordance with the 1967 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. Most States and areas have converted their series to the 1972 SICM.

### Industry employment

Employment data, except those for the Federal Government refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

The data exclude proprietors, the self-employed, unpaid volunteer or family workers, farm workers, and domestic workers in households. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded.

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday or paid vacation, or who work during a part of the pay period and are unemployed or on strike during the rest of the period, are counted as employed. Not counted as employed are persons who are laid off, on leave without pay, or on strike for the entire period or who are hired but have not been paid during the period.

### Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in contract construction, and nonsupervisory employees in the remaining private nonagricultural components. For Federal Government, hours and earnings relate to all employees, both supervisory and nonsupervisory. Terms are defined below. When the pay period reported is longer than 1 week, figures are reduced to a weekly basis.

*Production and related workers* include working supervisors and all nonsupervisory workers (including group leaders and

trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), and recordkeeping and other services closely associated with the above production operations.

*Construction workers* include the following employees in the contract construction division: Working supervisors, qualified craft workers, mechanic's apprentices, laborers, etc., whether working at the site of construction or in shops or yards, at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.

*Nonsupervisory employees* include employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and similar occupational levels, and other employees whose services are closely associated with those of the employees listed.

*Payroll* covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of any kind, e.g., for old-age and unemployment insurance, group insurance, withholding tax, bonds or union dues; also included is pay for overtime, holidays, vacations, and sick leave paid directly by the firm. Bonuses (unless earned and paid regularly each pay period), other pay not earned in the pay period reported (e.g., retroactive pay), tips, and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc. paid by the employer) are also excluded.

*Hours* cover the hours paid for, during the pay period which includes the 12th of the month, for production, construction, or nonsupervisory workers. Included are hours paid for holidays and vacations, and for sick leave when pay is received directly from the firm.

*Overtime hours* cover hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which includes the 12th of the month. Weekend and holiday hours are included only if overtime premiums were paid. Hours for which only shift differential, hazard, incentive, or other similar types of premiums were paid are excluded.

**Gross average hourly and weekly earnings.** Average hourly earnings are on a "gross" basis, reflecting not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers paid on an incentive plan. Shifts in the volume of employment between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments also affect the general earnings averages. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

Averages of hourly earnings differ from wage rates. Earnings are the actual return to the worker for a stated period of time; rates are the amount stipulated for a given unit of work or time. The earnings series does not measure the level of total labor costs on the part of the employer since the following are excluded: Irregular bonuses, retroactive items, payments of various welfare benefits, payroll taxes paid by employers, and earnings for those employees not covered under the production-worker, construction-worker, or nonsupervisory-employee definitions.

Gross average weekly earnings are derived by multiplying

average weekly hours by average hourly earnings. Therefore, weekly earnings are affected not only by changes in gross average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as proportion of part-time workers, stoppages for varying causes, labor turnover during the survey period, and absenteeism for which employees are not paid may cause the average workweek to fluctuate.

Long-term trends of gross average weekly earnings can be affected by structural changes in the makeup of the work force. For example, persistent long-term increases in the proportion of part-time workers in retail trade and many of the service industries have reduced average workweeks in these industries and have affected the average weekly earnings series.

**Average weekly hours.** The workweek information relates to the average hours for which pay was received and is different from standard or scheduled hours. Such factors as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

**Average overtime hours.** The overtime hours represent the portion of the gross average weekly hours which were in excess of regular hours and for which overtime premiums were paid. If an employee worked on a paid holiday at regular rates, receiving as total compensation his holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

Since overtime hours are premium hours by definition, gross weekly hours and overtime hours do not necessarily move in the same direction from month-to-month; for example, overtime premiums may be paid for hours in excess of the straight-time workday although less than a full week is worked. Diverse trends at the industry-group level also may be caused by a marked change in gross hours for a component industry where little or no overtime was worked in both the previous and current months. In addition, such factors as stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on gross hours.

**Hours and earnings for total private nonagricultural industries.** The series covers all nonagricultural industry divisions except government. The principal source of payroll data is Form BLS 790. Secondary source material such as the Bureau's *Employment and Wages, County Business Patterns* of the Bureau of the Census, and additional supporting information such as The Hospital Guide, Part II, of the American Hospital Association and special studies by the National Council of Churches supplement data for certain industry groups within the service division.

For a technical description of this series, see the article, "Hours and Earnings for Workers in Private Nonagricultural Industries," published in the May 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints are available upon request.

**Railroad hours and earnings.** The figures for class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Gross average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by

the number of employees, as defined above. Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

**Spendable average weekly earnings.** Spendable average weekly earnings in current dollars are obtained by deducting estimated Federal social security and income taxes from average weekly earnings. The amount of income tax liability depends on the number of dependents supported by the worker and his marital status, as well as on the level of his gross income. To reflect these variables, spendable earnings are computed for a worker with no dependents and a married worker with three dependents. The computations are based on gross average weekly earnings for all production or nonsupervisory workers in the industry division excluding other income and income earned by other family members.

The series reflects the spendable earnings of only those workers, with either none or three dependents, whose gross weekly pay approximates the average earnings indicated for all production and nonsupervisory workers. It does not reflect, for example, the average earnings of all married workers with three dependents; such workers, in fact have higher gross average earnings than workers with no dependents.

Since part-time as well as full-time workers are included, and since the proportion of part-time workers has been rising, the series understates the increase in earnings for full-time workers. As noted, "fringe benefits" are not included in the earnings. For a more complete discussion of the uses and limitations of these series, see the article by Paul M. Schwab, "Two Measures of Purchasing Power Contrasted," in the *Monthly Labor Review* for April 1971. Reprints of this article are available upon request from the Bureau of Labor Statistics.

"Real" earnings are computed by dividing the current Consumer Price Index into the earnings averages for the current month. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in purchasing power since the base period (1967).

**Average hourly earnings excluding overtime.** Average hourly earnings excluding overtime premium pay are computed by dividing the total production worker payroll for the industry group by the sum of total production-worker hours and one-half of total overtime hours. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-540). Both methods eliminate only the earnings due to overtime paid for at 1½ times the straight-time rates. No adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

**Indexes of aggregate weekly payrolls and hours.** The indexes of aggregate weekly payrolls and hours are prepared by dividing the current month's aggregate by the monthly average for the 1967 period. The hour aggregates are the product of average weekly hours and production-worker or nonsupervisory worker employment, and the payroll aggregates are the product of hour aggregates and average hourly earnings. At all higher levels of aggregation, hour and payroll aggregates are the sum of the component aggregates.

**Indexes of diffusion of changes in number of employees on nonagricultural payrolls.** These indexes measure the percent of industries which posted increases in employment over the specified time span. The indexes are calculated from 172 unpublished seasonally adjusted employment series (two-digit nonmanufacturing industries and three-digit manufacturing

industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December, 1974 issue of *Employment and Earnings*.

### Labor turnover

Labor turnover is the gross movement of wage and salary workers into and out of employed status with respect to individual establishments. This movement, which relates to a calendar month, is divided into two broad types: *Accessions* (new hires and rehires) and *separations* (terminations of employment initiated by either employer or employee). Each type of action is cumulated for a calendar month and expressed as a rate per 100 employees. The data relate to all employees, whether full- or part-time, permanent or temporary, including executive, office, sales, other salaried personnel, and production workers. Transfers to another establishment of the company are included, beginning with January 1959.

*Accessions* are the total number of permanent and temporary additions to the employment roll, including both new and re-hired employees.

*New hires* are temporary or permanent additions to the employment roll of persons who have never before been employed in the establishment (except employees transferring from another establishment of the same company) or of former employees not recalled by the employer.

*Other accessions*, which are not published separately but are included in total accessions, are all additions to the employment roll which are not classified as new hires, including transfers from other establishments of the company and employees recalled from layoff.

*Separations* are terminations of employment during the calendar month and are classified according to cause: Quits, layoffs, and other separations, are defined as follows:

*Quits* are terminations of employment initiated by employees, failure to report after being hired, and unauthorized absences, if on the last day of the month the person has been absent more than 7 consecutive calendar days.

*Layoffs* are suspensions without pay lasting or expected to last more than 7 consecutive calendar days, initiated by the employer without prejudice to the worker.

*Other separations*, which are not published separately but are included in total separations, are terminations of employment because of discharge, permanent disability, death, retirement, transfers to another establishment of the company, and entrance into the Armed Forces for a period expected to last more than 30 consecutive calendar days.

### Relationship of labor turnover to employment series

Month-to-month changes in total employment in manufacturing industries reflected by labor turnover rates are not comparable with the changes shown in the Bureau's employment series for the following reasons: (1) Accessions and separations are computed for the entire calendar month; the employment reports refer to the pay period which includes the 12th of the month; and (2) employees on strike are not counted as turnover actions although such employees are excluded from the employment estimates if the work stoppage extends through the report period.

## ESTIMATING METHODS

The principal features of the procedure used to estimate employment for the industry statistics are (1) the use of the

"link relative" technique, which is a form of ratio estimation, (2) periodic adjustment of employment levels to new benchmarks, and (3) the use of size and regional stratification.

### The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current month employment to that of the previous month is computed. This is called a link relative. The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these "link relatives." In addition, small bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past experience. Other features of the general procedures are described in table F. Summary of methods for computing industry statistics on employment, hours, earnings, and labor turnover.

### Size and regional stratification

A number of industries are stratified by size of establishment and/or by region, and the stratified production or nonsupervisory worker data are used to weight the hours and earnings into broader industry groupings. Accordingly, the basic estimating cell for an employment, hours, or earnings series, as the term is used in the summary of computational methods, may be a whole industry or a size stratum, a region stratum, or a size stratum of a region within an industry.

### Benchmark adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1974 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by State agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover nearly nine-tenths of the total nonagricultural employment in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates relating to the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions due to benchmark adjustment for the last 3 years is shown in table G.

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. To provide users of the data with a convenient reference source for the revised data, the BLS publishes as soon as possible after each benchmark revision a summary volume of employment, hours, earnings, and labor turnover statistics, entitled *Employment and Earnings*, United States.

**Table F. Summary of methods for computing industry statistics on employment, hours, and labor turnover**

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
Monthly data		
All employees . . . . .	All employees estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months.	Sum of all employee estimates for component cells.
Production or nonsupervisory workers, women employees . . . . .	All employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) ratio of women to all employees.	Sum of production or nonsupervisory worker estimates, or estimates of women employees, for component cells.
Gross average weekly hours . . . . .	Production or nonsupervisory worker hours divided by number of production or nonsupervisory workers.	Average, weighted by production or nonsupervisory employment, of the average weekly hours for component cells.
Average weekly overtime hours . . . . .	Production worker overtime hours divided by number of production workers.	Average, weighted by production worker employment, of the average weekly overtime hours for component cells.
Gross average hourly earnings . . . . .	Total production or nonsupervisory worker payroll divided by total production or nonsupervisory worker hours.	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Gross average weekly earnings . . . . .	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates . . . . .	The number of particular actions (e.g., quits) in reporting establishments divided by total employment in those firms. The result is multiplied by 100.	Average, weighted by employment, of the rates for component cells.
Annual average data		
All employees and production or nonsupervisory workers . . . . .	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Gross average weekly hours . . . . .	Annual total of aggregate hours (production or nonsupervisory worker employment multiplied by average weekly hours) divided by annual sum of employment.	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours . . . . .	Annual total of aggregate overtime hours (production worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers.
Gross average hourly earnings . . . . .	Annual total of aggregate payrolls (production or nonsupervisory worker employment multiplied by weekly earnings) divided by annual aggregate hours.	Annual total of aggregate payrolls divided by annual aggregate hours.
Gross average weekly earnings . . . . .	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates . . . . .	Sum of monthly rates divided by 12.	Sum of monthly rates divided by 12.

**Table G. Nonagricultural payroll employment estimates, by industry divisions, as a percentage of the benchmark for 1971, 1973, and 1974**

Industry division	1971	1973 <sup>1</sup>	1974
Total . . . . .	100.2	98.4	99.9
Mining . . . . .	99.8	96.5	97.0
Contract construction . . . . .	96.9	90.4	100.6
Manufacturing . . . . .	100.4	98.9	99.9
Transportation and public utilities . . . . .	100.9	99.3	100.0
Wholesale and retail trade . . . . .	100.3	97.8	100.1
Finance, insurance, and real estate . . . . .	100.2	99.5	98.9
Services . . . . .	100.4	99.1	99.3
Government . . . . .	100.0	99.5	100.6

<sup>1</sup> 2-year revision.

**THE SAMPLE**

**Design**

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the

average size of establishments. The universe of establishments is stratified first by industry and then within each industry by size of establishment in terms of employment. For each industry, the number of sample units is distributed among the size class cells on the basis of average employment per establishment in each cell. In practice, this is equivalent to distributing the predetermined total number of establishments required in the sample among the cells on the basis of the ratio of employment in each cell to total employment in the industry. Within each noncertainty stratum the sample members are selected at random.

Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a large percentage of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small

establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to accept samples in these divisions with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

In the context of the BLS employment and labor turnover statistics programs, with their emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after reports are mailed by respondents, and at a somewhat later date, statistics in considerably greater industrial detail.

### Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table H shows the approximate proportion of total employment in each industry division covered by the group of establishments furnishing monthly employment data. The coverage for individual industries within the division may vary from the proportions shown. Table I shows the approximate coverage, in terms of employment, of the labor turnover sample.

**Table H. Approximate size and coverage of BLS employment and payrolls sample, March 1974<sup>1</sup>**

Industry division	Number of establishments in samples	Employees	
		Number reported	Percent of total
Total .....	158,400	31,637,000	41
Mining .....	2,100	307,000	46
Contract construction .....	16,500	771,000	20
Manufacturing .....	47,000	11,821,000	59
Transportation and public utilities:			
Railroad transportation (ICC) .....	95	537,000	94
Other transportation and public utilities .....	7,300	2,181,000	53
Wholesale and retail trade .....	38,200	3,050,000	18
Finance, insurance, and real estate .....	10,100	1,507,000	36
Services .....	23,500	2,740,000	20
Government:			
Federal (Civil Service Commission) <sup>2</sup> .....	3,200	2,691,000	100
State and local .....	10,400	6,032,000	52

<sup>1</sup> Since a few establishments do not report payroll and hour information, hours and earnings estimates may be based on a slightly smaller sample than employment estimates.

<sup>2</sup> National estimates of Federal employment are provided to the BLS by the Civil Service Commission. State and area estimates are based on a sample of 3,200 reports covering about 53 percent of employment in Federal establishments.

**Table I. Approximate size and coverage of BLS labor turnover sample, March 1974**

Industry	Employees	
	Number reported	Percent of total
Total .....	10,873,730	52
Manufacturing .....	10,007,800	51
Metal mining .....	61,850	66
Coal mining .....	56,770	35
Communications:		
Telephone .....	734,270	74
Telegraph .....	13,040	61

### Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a link relative technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Improvements brought about by the most recent expansion in unemployment insurance coverage were the major cause of differences in the March 1973 benchmark adjustments. (See article by Carol M. Utter, "BLS Establishment Estimates Revised to March 1973 Benchmark Levels", in the December 1974 issue.) Table J presents the average percent revisions of the six most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table J and for individual industries with the specified number of employees in table K. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error

**Table J. Average benchmark percent revision in employment estimates and relative errors<sup>1</sup> for average weekly hours and average hourly earnings by industry division**

Industry division	Average benchmark revision in estimates of employment <sup>2</sup>	Relative errors (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment .....	0.2	-	-
Total private .....	1	0.1	0.2
Mining .....	1.2	5	5
Contract construction .....	1.2	2	3
Manufacturing .....	3	1	1
Durable goods .....	4	1	1
Nondurable goods .....	3	1	1
Transportation and public utilities .....	4	7	4
Trade .....	3	1	2
Wholesale .....	1.0	2	3
Retail .....	2	2	2
Finance, insurance, and real estate .....	4	2	4
Services .....	6	4	8
Government <sup>3</sup> .....	6	-	-

<sup>1</sup> Relative errors relate to March 1971 data.

<sup>2</sup> The average percent revision in employment for the 1967-71 and 1974 benchmarks.

<sup>3</sup> Estimates for government are based on a total count for Federal Government and samples for State and local government benchmarked to a quinquennial census of government conducted by the Bureau of the Census.

from the averages that would have been obtained from a complete census.

One measure of the reliability of the employment estimates for individual industries is the root-mean-square error (RMSE). The measure is the standard deviation adjusted for the bias in estimates

$$(RMSE = \sqrt{(Standard\ Deviation)^2 + (Bias)^2}.)$$

If the bias is small, the chances are about 2 out of 3 that an estimate from the sample would differ from its benchmark by less than the root-mean-square error. The chances are about 19 out of 20 that the difference would be less than twice the root-mean-square error.

Approximations of the root-mean-square errors (based on the experience of the last 6 years) of differences between final estimates and benchmarks are presented in table K.

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table L presents root-mean-square errors of the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than .1 of an hour for weekly hours and 1 cent for hourly earnings.

**Table K. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings**

Size of employment estimate	Root-mean-square error of employment estimates <sup>1</sup>	Relative errors (in percent)	
		Average weekly hours	Average hourly earnings
50,000 .....	1,900	0.9	1.5
100,000 .....	2,700	.7	1.1
200,000 .....	4,100	.5	.9
500,000 .....	9,600	.4	.8
1,000,000 .....	13,000	.3	.5
2,000,000 .....	16,800	.3	.5

<sup>1</sup> Assuming 12-month intervals between benchmark revisions.

**Table L. Errors of preliminary employment estimates**

Size of employment estimate	Root-mean-square error of	
	Monthly level	Month-to-month change
50,000 .....	600	600
100,000 .....	800	700
200,000 .....	1,400	1,200
500,000 .....	3,300	3,200
1,000,000 .....	4,200	4,200
2,000,000 .....	6,500	6,300
10,000,000 .....	27,000	23,000
Total nonagricultural employment .....	94,000	81,000
Mining .....	6,000	5,000
Contract construction .....	17,000	15,000
Manufacturing .....	35,000	33,000
Transportation and public utilities .....	14,000	12,000
Wholesale and retail trade .....	33,000	31,000
Finance, insurance, and real estate .....	6,000	6,000
Services .....	27,000	22,000
Government .....	45,000	39,000

## STATISTICS FOR STATES AND AREAS

State and area employment, hours, earnings, and labor turnover data are collected and prepared by State agencies in

cooperation with BLS. The area statistics relate to metropolitan areas. Definitions for all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

For the States and the areas shown in the B and C sections of this periodical, all the annual average data for the detailed industry statistics currently published by each cooperating State agency are presented (from the earliest date of availability of each series) in a summary volume published annually by the BLS.

## PRODUCTIVITY DATA

Tables C-10, C-11, and C-12 are compiled by the Bureau of Labor Statistics from establishment data and from estimates of compensation and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

## Definitions

*Hours of wage and salary workers* in nonagricultural establishments refer to hours paid for all employees—production workers, nonsupervisory workers, and salaried workers.

*Output* is the constant dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of labor input, or labor productivity, measure changes in the volume of goods and services produced per unit of labor.

*Compensation per hour* includes wages and salaries of employees plus employers contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

*Real compensation per hour* is compensation per hour adjusted to eliminate the effect of changes in the Consumer Price Index.

*Unit labor costs* measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour. *Unit nonlabor payments* include profits, depreciation, interest, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current dollar gross national product and dividing by output. In these tables, unit nonlabor costs contain all the components of unit nonlabor payments except unit profits. *Unit profits* includes corporate profits and inventory valuation adjustments per unit of output.

The *implicit price deflator* is derived by dividing the current dollar estimate of gross product by the constant dollar estimate, making the deflator, in effect, a price index for gross product of the sector reported.

## Notes on the data

For the private business sector and the nonfarm business sector, these indexes relate to the Gross Domestic Product less households and institutions, owner-occupied housing,



and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the Gross Domestic Product of nonfinancial corporate businesses.

Manufacturing data have been revised to reflect revisions in the Federal Reserve Board Index of Industrial Production. Output data are supplied by the Bureau of Economic Analysis,

U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hour data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

## State and area unemployment data

(E table)

Since November 1972, the Bureau of Labor Statistics has been responsible for developing the concepts and methods used by State employment security agencies to estimate State and local area labor force, employment, and unemployment. In December 1975, the Office of Management and Budget extended this responsibility to include the publication of State and local area labor force and unemployment estimates. Prior to 1972, State agencies prepared estimates using a method developed by the Department of Labor in 1950, generally referred to as the Handbook method (BES Report No. R-185). The new system combines the Handbook method with a set of procedures based on the concepts and definitions used in the national Current Population Survey (CPS). Improvements have been in two areas: (1) The estimating methodology previously used by State agencies has been modified to more closely approximate CPS definitions; and (2) The State-prepared monthly estimates are benchmarked to annual average totals from the CPS.

### Federal-State cooperative program

Labor force and unemployment estimates for States, labor market areas (LMA), and other areas specifically defined for fund allocation purposes are developed under a Federal-State cooperative program and transmitted each month to BLS. The local area unemployment estimates approved by BLS are the basis for determining eligibility of an area for benefits under Federal economic assistance programs, such as those established by the Comprehensive Employment and Training Act (CETA).

### ESTIMATING METHODS

Monthly employment and unemployment estimates are prepared in several stages:

1. *Preliminary estimate—Employment:* The total employment estimate is based primarily on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate must be adjusted to refer to place of residence as used in the Current Population Survey. Adjustment factors for the major categories of employment by class of worker and industry have been developed on the basis of employment relationships which existed at the time of the 1970 Decennial Census. These factors are applied to the payroll employment estimates for the current period to obtain adjusted employment estimates.

2. *Preliminary estimate—Unemployment:* In the current month, the estimate of unemployment is an aggregate of the estimates

for each of three building block categories: (1) Persons who were previously employed in industries covered by State unemployment insurance (UI) laws; (2) those previously employed in industries not covered by these laws; and (3) those who were either entering the labor force for the first time or reentering after a period of separation.

An estimate for those previously employed in covered industries is derived from a count of current unemployment insurance claimants, plus estimates of claimants whose benefits have been exhausted, those persons disqualified from receiving benefits for nonmonetary reasons (because they quit, were discharged for cause, etc., but would otherwise have been eligible), and persons who either filed claims late, or not at all.

The estimate of those previously employed in industries not covered by UI is derived by applying the current ratio of covered unemployment to covered employment to the employment estimate for each industry or class of worker subgroup in the State, weighted by factors reflecting national historical relationships.

For the third category, new entrants and reentrants into the labor force, a composite estimate is developed from equations that relate the total entrants into the labor force to the experienced unemployed and the experienced labor force. For each month, the estimate of entrants into the labor force is a function of: (a) the month of the year; (b) the level of the experienced unemployed; (c) the level of the experienced labor force; and (d) the proportion of the working age population that is considered "youth". The composite estimate of total entrants is defined as:

$$U = A(X + E) + BX, \text{ Where}$$

U = total entrant unemployment

E = total employment

X = total experienced unemployment

A, B = synthetic factors incorporating seasonal variation, and an assumed relationship between the proportion of youths in the working population and the historical relationship of entrants to the experienced unemployed (B factor) or the experienced labor force (A factor).

3. *Adjustment for additivity.* Using the Handbook method, States prepare independent employment and unemployment estimates for the State, and for many substate areas. An adjustment is applied to all substate estimates to ensure that the substate estimates add to the independent State totals. Specific additivity adjustment procedures vary from State to State, but are generally one of the three following basic methods: (a) If a State is comprised of mutually exclusive and exhaustive LMA's, then the difference between the independent State estimate and the sum of the estimates for the LMA's is prorated over all LMA's in the State, to produce a set of substate estimates which add to the independent State estimate; (b) If the

mutually exclusive LMA's do not exhaust the geographic area of the State, then the difference between the independent State estimate and the sum of the LMA estimates, or residual, becomes the balance-of-State estimate; (c) If a State contains LMA's which are benchmarked independently (see below), estimates for these areas are subtracted from the independent State estimate and the additivity adjustment is then applied to the remaining areas in the balance of the State.

4. *Benchmark correction and extrapolation procedures.* Once each year all monthly estimates prepared by State employment security agencies under the Handbook method are adjusted, or benchmarked, by BLS to the annual average estimates resulting from the CPS. This adjustment is necessary because the State-prepared estimates are not as reliable as the CPS estimates, due to differences in State UI laws, the structural limitations of the Handbook method, and errors in the UI data.

The benchmarked estimates are produced in three stages.

First, the monthly Handbook estimates are adjusted by the ratio of the CPS and Handbook annual averages. Second, the difference between the ratio of annual averages for two consecutive years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the second-stage estimates are forced into agreement with CPS annual averages.

The benchmarked estimates are extrapolated into the current year by applying the latest relevant correction factor to the current Handbook estimates of employment and unemployment. The employment factor used in year (t) is the quotient of the December employment benchmarked and Handbook estimates in year (t-1). The unemployment factor for year (t) is the algebraic difference between the December unemployment benchmarked and Handbook estimates in year (t-1). The preliminary estimate in the current year is then the result of applying the correction factor by multiplication (for employment), or by addition (for unemployment) to the current Handbook estimate.

## Seasonal adjustment

Many economic statistics reflect a regularly recurring seasonal movement which can be estimated on the basis of past experience. By eliminating that part of the change which can be ascribed to usual seasonal variation, it is possible to observe the cyclical and other nonseasonal movements in the series. However, in evaluating deviations from the seasonal pattern—that is, changes in a seasonally adjusted series—it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors, but in addition, are affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment data are published regularly in *Employment and Earnings*.

The seasonal adjustment methods used for these series are an adaptation of the standard ratio-to-moving average method, with a provision for moving "adjustment factors" to take account of changing seasonal patterns. A detailed description of the method is given in the two publications, *BLS Seasonal Factor Method (1966)* and *X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Data for the household series are seasonally adjusted utilizing the Census Bureau's X-11 Method. Each January, seasonal adjustment factors for unemployment and other labor force series are revised to take into account data from the previous year. In January 1976, in addition to the routine annual revisions, the Bureau introduced a modification in the procedure for seasonally adjusting teenage unemployment and those few other unemployment series (e.g., unemployed new entrants) of which teenagers are the exclusive or major part. All other series are adjusted following past procedures.

All civilian labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (males and females under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. In order to provide seasonally adjusted total employment and civilian labor force estimates,

the appropriate series are aggregated. The unemployment rate for all civilian workers is derived by dividing the estimate for total unemployment (the sum of 4 seasonally adjusted sex-age components) by the civilian labor force (the sum of 12 seasonally adjusted sex-age components).

Revised seasonally adjusted series for major components of the labor force based on data through December 1976, new seasonal factors for the 12 major components of the civilian labor force, and a description of the seasonal adjustment methodology are published in the February 1977 *Employment and Earnings*. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

For establishment data, seasonally adjusted series for all employees, production workers, hours, and earnings, are computed using the BLS Seasonal Factor Method. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing seasonally adjusted average weekly earnings by the seasonally adjusted Consumer Price Index. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1967 base. For total private, total goods producing, total private service producing, trade, manufacturing, and durable and nondurable goods the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1967 base.

The seasonally adjusted establishment data for Federal Government are based on a series which excludes the Christmas temporary help employed by the Postal Service in December. The employment of these workers constitutes the only significant seasonal change in Federal Government employment during the winter months. Furthermore, the volume of such employment may change substantially from year to year because of administrative decisions by the Postal Service.

Hence, it was considered desirable to exclude this group from the data upon which the seasonally adjusted series is based.

For labor turnover rates, seasonal adjustment factors are applied directly to the component series. These series are then aggregated to obtain total levels (total accessions and total separations). These factors are derived by the Census X-11 Method using the trading day option. As a result these series

are adjusted for the number of times each day of the week occurs in a given month, as well as for the month of the year.

The revised seasonally adjusted series for the establishment data reflect experience through August 1976. Seasonal factors to be used for current adjustment appear in the December 1976 issue of *Employment and Earnings*.

Additional information concerning the preparation of the labor force, employment, hours, earnings, and labor turnover series—concepts and scope, survey methods, and limitations—is contained in the *Handbook of Methods, BLS Bulletin 1910*.

Following is a list of Special Labor Force Reports which may be obtained, while the supply lasts, upon request to the Bureau of Labor Statistics or to any of its regional offices.

Number

- 155 Employment of High School Graduates and Dropouts, October 1972
- 156 The U.S. Labor Force: Projections to 1990
- 157 Job Losers, Leavers, and Entrants: Traits and Trends
- 158 **Young Workers: In School and Out**
- 159 Going Back to School at 35
- 160 Education of Workers: Projections to 1990
- 161 Educational Attainment of Workers, March 1973
- 162 Work Experience of the Population in March 1972
- 163 Employment and Unemployment in 1973
- 164 Marital and Family Characteristics of the Labor Force in March 1973
- 165 Children of Working Mothers, March 1973
- 166 Multiple Jobholding, May 1973
- 167 Job Situation of Vietnam-era Veterans
- 168 Employment of High School Graduates and Dropouts, 1973
- 169 Employment of Recent College Graduates, October 1972
- 170 Employment of School-Age Youth, October 1973
- 171 Work Experience of the Population, 1973
- 172 Job Tenure of Workers, January 1973
- 173 Marital and Family Characteristics of the Labor Force, March 1974
- 174 Children of Working Mothers, March 1974
- 175 Educational Attainment of Workers, March 1974
- 176 Occupational Mobility of Workers
- 177 Multiple Jobholding in May 1974
- 178 Employment and Unemployment in 1974
- 179 Trends in Overtime Hours and Pay, 1969-74
- 180 Students, Graduates, and Dropouts in the Labor Market, October 1974
- 181 Work Experience of the Population, 1974
- 182 Multiple Jobholders in May 1975
- 183 Marital and Family Characteristics of the Labor Force, March 1975
- 184 Going Back to School at 35 and Over
- 185 Employment and Unemployment During 1975
- 186 Educational Attainment of Workers, March 1975
- 187 Length of Working Life for Men and Women, 1970
- 188 Long Workweeks and Premium Pay
- 189 Families and the Rise of Working Wives--An Overview
- 190 Women Who Head Families: A Socioeconomic Analysis
- 191 Students, Graduates, and Dropouts in the Labor Market, October 1975
- 192 Work Experience of the Population, 1975
- 193 Educational Attainment of Workers, March 1976
- 194 Multiple Jobholders, May 1976
- 195 Weekly and Hourly Earnings Data from the Current Population Survey
- 196 Long Hours and Premium Pay, May 1976

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*State and Local Area Unemployment Statistics Program (LAUS), Current Employment Statistics Program (CES), and Labor Turnover Statistics Program (LTS)*

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IX ARIZONA	-Department of Economic Security, P.O. Box 6123, Phoenix 85007
VI ARKANSAS	-Employment Security Division, Department of Labor, P.O. Box 2981, Little Rock 72203
IX CALIFORNIA	-Employment Development Department, P.O. Box 1679, Sacramento 95808 (LAUS and CES).
VIII COLORADO	-Division of Employment, Department of Labor and Employment, Room 222, 1210 Sherman Street, Denver 80203
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III DELAWARE	-Department of Labor, 801 West Street, Wilmington 19899
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